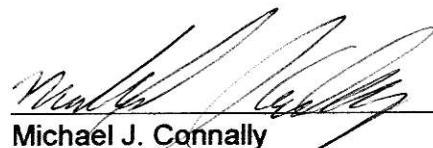


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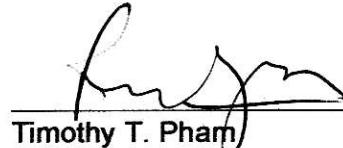
Radio Source Catalog

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Document Owner:


Michael J. Connally
Radio Science
System Engineer

Approved by:


Timothy T. Pham
DSN Chief System Engineer


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Change Log

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Note to Readers

There are two sets of document histories in the 810-005 document that are reflected in the header at the top of the page. First, the entire document is periodically released as a revision when major changes affect a majority of the modules. For example, this module is part of 810-005, Revision E. Second, the individual modules also change, starting as an initial issue that has no revision letter. When a module is changed, a change letter is appended to the module number on the second line of the header and a summary of the changes is entered in the module's change log.

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1 *Introduction*

1.1 *Purpose*

This module provides a catalog of the angular positions of astronomical radio sources that establish the celestial reference frame used for interplanetary spacecraft navigation using Delta-Differential One-way Ranging (Δ DOR). The catalog may also be useful for other applications requiring the precise location of radio sources such as antenna pointing calibration.

1.2 *Scope*

The discussion in this module is limited to describing the contents of the source catalog and providing a listing of the catalog – both within the module and as links to several computer-readable versions. The equipment used to collect the data from which the catalog is derived is discussed in module 211 of this handbook. The capabilities of the DSN for performing Δ DOR are contained in module 210.

2 *General Information*

The angular positions of a set of extragalactic radio sources serve as fiducial points for Δ DOR observations performed by the DSN. This set of point positions is commonly referred to as a *catalog*. The catalog described in this module comprises 847 sources that have been observed in a frequency range that includes the X-band deep space allocation (International Telecommunications Union Category B) of 8,400 – 8,450 MHz. A distribution of the radio sources in the catalog is illustrated by Figure 1.

2.1 *Catalog Development*

The primary data used to develop the source catalog are X-band and S-band VLBI data acquired with the DSN VLBI Subsystem and processed through the JPL VLBI Correlator (JVC). The correlator determines the angular positions of the radio sources by a monolithic least squares fit to the VLBI data set. Details of the physical modeling required by this procedure are given in Reference 1.

2.2 *Catalog Format*

The catalog uses the J2000 reference frame and is aligned with the International Earth Rotation Service (IERS) 94-C01 frame. In addition to the presentation in Table 1, the catalog is available for download as a fixed-width file at <http://eis.jpl.nasa.gov/deepspace/dsndocs/810-005/107/catalog-fixed.txt> and a tab-delimited file at <http://eis.jpl.nasa.gov/deepspace/dsndocs/810-005/107/catalog-delimited.txt>. Lines of the fixed-width file are terminated with ASCII Character 10 (Unix convention). Lines of the tab-delimited file are terminated with ASCII Characters 13 and 10 (DOS convention). The

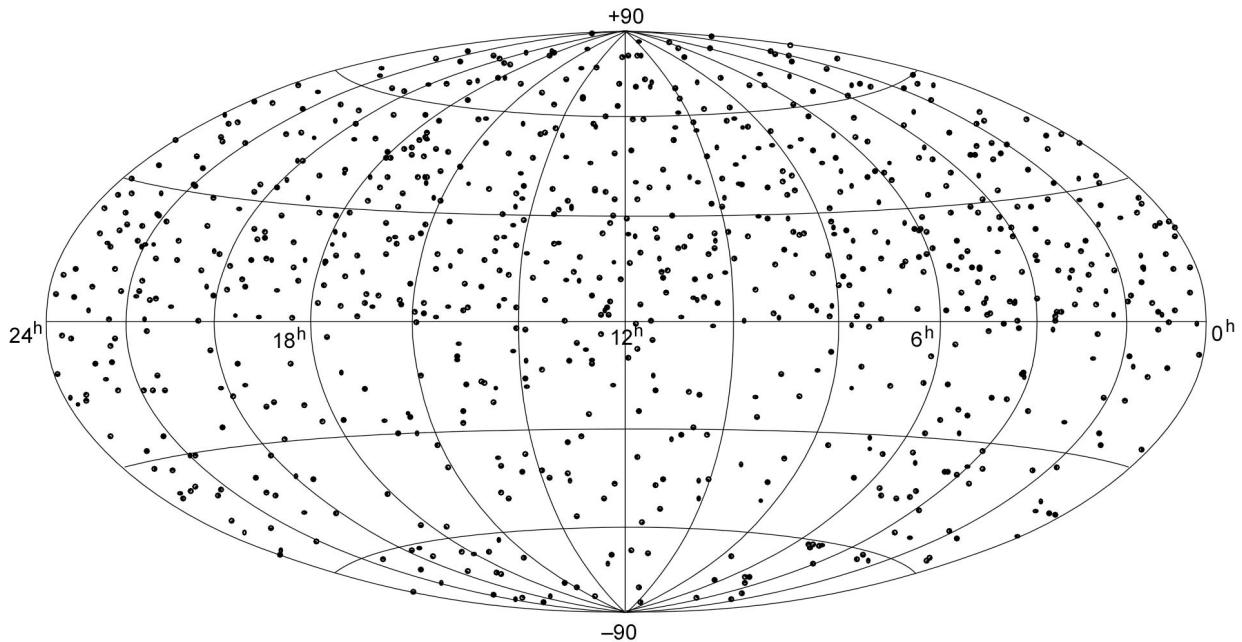


Figure 1. Distribution of Radio Sources in Catalog.

following descriptions are applicable to all three presentations. The fixed-width file may be read with the following FORTRAN format statement, “FORMAT (1X, A8, 1X, A12, I4, 2I3, F12.8, 1X, A1, I2, I3, F11.7, F11.8, F10.7, F8.4, 2F8.1, I6, F7.3, F6.1).”

2.2.1 *B1950 Name (characters 2 through 9)*

This is the source name based on its position at the Besselian epoch B1950.0 which is one of the two standard epochs that have been used in the last 30 years for reporting source positions (the other being the Julian epoch J2000.0). The name is related to the position of the source but is most useful for searching historical databases information about the source. The name is constructed as follows. The first two digits represent hours of right ascension (RA), the next two digits minutes of RA, the fifth place is used to specify the sign of the declination, places 6-7 give degrees of declination, and the last digit gives the first digit of the fractional part of degrees of declination. Thus the first entry in the catalog, 2358+189, is interpreted as a right ascension of twenty-three hours and 58 (time) minutes and a declination of plus 18.9 degrees at the B1950.0 epoch.

2.2.2 *Common Name (characters 11 through 22)*

This is the name most commonly used in the literature for the source and is the name used by the DSN for Delta-DOR measurement scheduling. Often, there is a short prefix that indicates the organization or radio observatory that first documented the source in a survey. The remainder of the name may be related to the source position or may be an arbitrary sequence number. Some of the prefixes and naming conventions include:

- 3C nnn – From the Third Cambridge Catalog. The nnn is the numerical designation assigned by the catalog. This survey, originally conducted at 159 MHz, identified many of the stronger sources used in VLBI. Unfortunately, many of these stronger sources are also less point like making them less desirable for the highest accuracy astrometric measurements.
- 4C zz.nn – From the Fourth Cambridge Catalog. The zz corresponds to the declination “zone.” The nn is a sequential number within the zone. There are no sequential numbers greater than 99.
- B2 RRrrSDDa – Most likely from the Second Bologna Survey. The RRrr is hours and minutes of right ascension, S is the sign of declination and DD is degrees of declination. The meaning of a (an alpha character) is unknown.
- CTA nn and CTD nn – From the California Institute of Technology “A” or “D” surveys where nn is the numerical designation assigned by the catalog.
- DW RRrrSDDd – From the Dwingelo Radio Observatory (Netherlands) catalog. The RRrr is hours and minutes of right ascension, S is the sign of declination, DD is degrees of declination, and d (if present) is the first digit of the fractional part of declination.
- GC RRrrSDDd – Most likely names taken from the “General Catalog of 33342 (optical) Stars.” The RRrrSDDd are as described before.
- HR nnnn – Most likely names taken from the “Harvard Revised (optical) Catalog” where nnn is the numerical designation assigned by the catalog.
- M nn – Most likely names taken from the “Messier Catalog of Galaxies” where nn is the numerical designation assigned by the catalog.
- NRAO nnn – From the National Radio Observatory catalog where nnn is the numerical designation assigned by the catalog.
- O_ nnn – From the Ohio State Survey where the second letter indicates the hour of right ascension (two letters are skipped from the alphabet) and nnn is a numerical designation assigned by the catalog.
- P RRrrSDDd – From the Parkes Radio Observatory (southern Australia) survey. The RRrrSDDd are as described before.
- VRO DD.RR.rr – From the Vermillion River Observatory (University of Illinois) catalog. The DD is degrees declination and RR is hours right ascension. The rr is unknown but may be either minutes of RA or fractional hours of RA.

2.2.3 *ID Number (characters 23 through 26)*

A unique number, presently in the range of 1 to 1206, is assigned to each radio source for use by programs that identify sources by number instead of name. The correspondence between source name and number will not change when the catalog is updated. This catalog can be used to establish a unique correspondence between the B1950 or Common Name and ID number. If one of the sources in this catalog is deleted from future revisions of the catalog delivery, its number will be retired. When a new source is added, it will be assigned a new number starting with 1207.

2.2.4 *Angular Positions (characters 28 through 62)*

Angular positions are specified by a pair of angular coordinates: Right ascension and declination. Note that while right ascension used to be defined as the angular distance along the celestial equator from the intersection of the equator and the ecliptic, this is no longer true once one becomes concerned with accuracy levels < 100 milliarcseconds (500 nrad).

Since 1 January 1998, right ascension-and most importantly the origin of RA, have been defined by conventional agreement as to the value of the RA of extragalactic radio sources. In practice this means that the axes implicitly defined by a set of source positions must agree with the International Celestial Reference Frame (Reference 2) to within the formal uncertainty of the ICRF axes or approximately 20 micro-arcseconds (1 sigma). Thus, the orientation of the celestial frame axes may vary in future realizations by roughly that amount.

2.2.4.1 *Right Ascension (characters 28 through 44)*

Right Ascension is presented in the form “hh mm SS.ssssssss” where the first sub field gives hours of RA followed by (time) minutes of RA and (time) seconds of RA to eight decimal places.

2.2.4.2 *Declination (characters 46 through 62)*

Declination is presented in the form “Sdd mm SS.ssssssss” where first sub-field, S or column 46, gives the sign of declination (a blank is allowed and should be interpreted as a positive declination). The remaining subfields give angular declination in degrees, minutes, and seconds to seven decimal places.

Note that a minus sign applies to the whole declination (ddmmss.ssssssss). For example, a declination of -00 00 00.ssssssss should be read as minus 0.ssssssss arcseconds of declination. This means that users desiring decimal representations of declination must first convert from degrees, minutes, seconds format to decimal format and THEN apply the relevant sign. To simplify this process, a tab character (ASCII 9) is inserted between the sign and the declination in the tab-delimited file and the sign is in a fixed position in the fixed-width file.

2.2.5 *Right Ascension Error (characters 64 through 73)*

This field provides the formal one-sigma Right Ascension uncertainty in units of seconds of time.

2.2.6 *Declination Error (characters 74 through 83)*

This field provides the formal one-sigma Declination uncertainty in units of arcseconds.

2.2.7 *Correlation of Right Ascension and Declination (characters 85 through 91)*

This field provides the formal correlation of right ascension and declination. The quantity may range from -1.0 to +1.0 and a blank in front of the value should be interpreted as indicating a positive correlation. Values close to zero indicate that the principal axes of the error ellipse are close to the RA-Dec axes. The large number of negative correlations is, in part, due to the large influence of the California to Australia baseline (typically between DSS-15 and DSS-45) on determination of declination.

2.2.8 *Observation Epochs (characters 93 through 107)*

Epochs are referred to Modified Julian Day (MJD) and are in typically in the neighborhood of 50,000.

2.2.8.1 *Initial (characters 93 through 99)*

The beginning epoch of the first observation.

2.2.8.2 *Last (characters 101 through 107)*

The termination epoch of the most recent observation.

2.2.9 *Number of Observations (characters 109 through 114)*

The number of observations, where an *observation* is defined as a continuous data collection period, may be used as a rough indicator of the robustness of the position determination. Any position based on less than 3 sessions should be considered provisional.

2.2.10 *Correlated Flux Density (characters 115 through 120)*

This is an estimate of the average correlated flux density for observations of the radio source using DSN baselines Goldstone-Madrid and Goldstone-Canberra. This value (Jy) was derived using a nominal conversion factor from measured signal-to-noise ratio (SNR). The SNR is determined during the cross-correlation and fringe-fitting of actual observations. If no recent observations of a radio source on DSN baselines are available, then no value is provided for correlated flux.

2.2.11 *Delay Scatter (characters 122 through 126)*

The delay scatter (ps) is determined by residuals of observations for this radio source to the global fit of all observations to estimate radio source coordinates. It represents a “goodness of fit” of the data to a point source model. A value in the range of 0 to 40 ps is typical for a source that is point-like. A value in the range of 40 to 60 ps is typical for a source that has significant structure. The source structure itself may contribute an error of this magnitude to the delay error budget. A value above 60 ps is typical for a source with large, extended, and possibly variable structure.

Table 1. X-band Radio Source Catalog

Bl 950	Names Common No.	ID			Right Ascension			Declination			RA Error (arc sec)	DEC Error (arc sec)	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)
		H	M	S	H	M	S	H	M	S						
23:58+189	2358+189	984	0	1	8.62	1547	92	+19	14	33.801555	0.00001146	0.0002487	0.0594	52772.6	2	83.7
0002-478	0002-478	706	0	4	35.65547946	-47	36	19.6036803	0.00003554	0.0005144	-0.0923	49330.5	52388.7	7	77.2	
0002+200	0002+200	985	0	4	35.75826169	+20	19	42.3179331	0.00001902	0.0002404	0.0754	52978.2	52983.4	2	65.4	
0003+380	GC_0003+38	1	0	5	57.17539443	+38	20	15.1490766	0.00000406	0.000509	-0.0763	48719.9	53045.7	10	0.159	
0003-066	0003-066	696	0	6	13.89289057	-6	23	35.3354249	0.0000063	0.0000183	-0.0786	48196.3	53307.7	612	0.981	
0007+106	ILIZW 2	986	0	10	31.0059004	+10	58	29.5040718	0.00001557	0.0005183	-0.4308	53052.2	53220.3	4	0.407	
0007+171	GC_0007+17	6	0	10	33.90057999	+17	24	18.7614273	0.0000038	0.00000767	-0.3156	44203.1	53248.6	30	0.098	
0008-421	P_0008-42	707	0	10	52.5190671	-41	53	10.7900264	0.0014552	0.0136289	-0.8627	49329.5	50049.1	2	45	
0008-264	P_0008-264	7	0	11	12.24674433	-26	12	33.3772295	0.00000877	0.0001221	-0.5059	44227.2	53196.7	34	0.344	
0010+405	0010+405	708	0	13	31.13020249	+40	51	37.1441876	0.00000422	0.0000694	-0.1239	49098.7	53158.7	5	0.52	
0013-005	P_0013-00	666	0	16	11.08855981	-0	15	12.4453972	0.00000309	0.00006672	-0.5386	47381.3	53196.7	84	0.239	
0014+813	0014+813	709	0	17	8.47486421	+81	35	8.136617	0.00000504	0.00000808	-0.1218	48352.9	53311.7	606	0.517	
0017+200	0017+200	987	0	19	37.85449113	+20	21	45.6448725	0.00000826	0.0001263	0.2236	52964.2	52968.7	2	45.9	
0017+257	0017+257	988	0	19	39.78057882	+26	2	52.2762382	0.00005517	0.0020284	-0.4446	52431.3	52431.3	1	43.9	
0016+731	0016+731	710	0	19	45.78638741	+73	27	30.0175335	0.00000325	0.0000115	-0.0914	47282.8	53094.6	275	0.666	
0019+451	J0022+4525	989	0	22	6.6129966	+45	25	33.8595004	0.00003812	0.0005796	0.1331	51696.1	51696.8	1	82.3	
0019+058	P_0019+058	11	0	22	32.4412171	+6	8	4.2689174	0.00000371	0.0000809	-0.5063	45151.6	53196.7	61	0.437	
0021+243	0021+243	990	0	24	27.3035346	+24	39	26.2292322	0.00001522	0.0002351	-0.2131	53024.7	53307.10	10	74.8	
0022-423	0022-423	711	0	24	42.9864935	-42	2	3.9452871	0.00008974	-0.0027997	-0.6087	503131.7	503131.7	2	0.026	
0024+597	J0027+5958	991	0	27	3.28605565	+59	58	52.9587754	0.00005357	0.0004463	0.2402	51695.9	51696.7	1	93.2	
0025+197	0025+197	992	0	28	29.81850898	+20	0	26.7448159	0.00001924	0.0004137	0.1241	52988.8	52988.7	1	76.1	
0034+108	J0037+1109	993	0	37	26.04141034	+11	9	50.9199176	0.00003342	0.001276	-0.3199	51696.3	51696.7	1	124.1	
0035+413	0035+413	712	0	38	24.84358878	+41	37	6.0004263	0.00000386	0.00000497	-0.0416	49421.9	53256.6	5	0.31	
0037+139	0037+139	994	0	39	39.61958996	+14	11	57.5568062	0.00001334	0.0004019	0.0113	52430.8	53193.7	3	67	
0039+230	0039+230	713	0	42	4.54516025	+23	20	1.0621096	0.00000318	0.0000819	-0.2039	50765.3	53262.7	5	36.7	
0044+566	J0047+5657	995	0	47	0.42882705	+56	57	42.3958054	0.00005441	0.0006681	0.3064	51696.3	51696.8	1	94.1	
0046+316	NGC_0262	996	0	48	47.14148281	+31	57	25.0849795	0.00000533	0.0001303	-0.1332	53200.8	53201.6	1	45.9	
0047+023	J0049+0237	997	0	49	43.2354911	+2	37	3.7807138	0.00004227	0.0017427	-0.2114	51696.1	51696.6	1	106.7	
0047-579	P_0047-579	714	0	49	59.47312093	-57	38	27.3388216	0.00003121	0.0004737	0.3391	48388.1	51115.4	4	77.6	
0048-097	P_0048-09	19	0	50	41.31738893	-9	29	5.2103396	0.0000061	0.000164	-0.1033	46609.4	53293.2	938	0.723	
0048-427	0048-427	998	0	51	9.50184924	-42	26	33.2931592	0.00004469	0.0012063	0.4297	53192.2	53192.3	1	90.6	
0051+679	J0054+6811	999	0	54	17.62286279	+68	11	11.1725248	0.00002378	0.0016382	-0.9009	51696.1	51696.1	1	62.5	
0055+300	DW_0055+300	1000	0	57	48.8833794	+30	21	8.8122777	0.00004475	0.000795	-0.403	53177.7	53178.6	1	0.322	
0056-572	0056-572	715	0	58	46.58112498	-56	59	11.471046	0.00008606	0.0007545	0.4332	49330.5	50182.5	2	116.3	
0056-001	P_0056-00	24	0	59	5.51494316	+0	6	51.620949	0.00000538	0.0001646	-0.0534	48975.9	53068.7	6	50.3	
0059+581	0059+581	716	1	2	45.76237377	+58	24	11.1366885	0.00000128	0.0000073	-0.2022	48719.9	53311.7	694	44.1	
0104-408	P_0104-408	25	1	6	45.1079615	-40	34	19.9603425	0.00000157	0.0000313	0.0091	43809.2	53297.7	587	59.5	
0106+013	P_0106+01	27	1	8	38.77110321	+1	35	0.3172387	0.0000073	0.0000159	-0.0385	43809.3	53297.6	908	1.116	
0108+388	GC_0108+38	29	1	11	37.31678111	+39	6	28.103876	0.00000721	0.0000847	0.1842	49098.7	53129.7	4	41.6	
0109+224	GC_0109+22	30	1	12	5.82471215	+22	44	38.7865757	0.00000269	0.0000627	-0.0553	49735.9	53241.5	7	38.9	
0110+495	0110+495	717	1	13	27.00680225	+49	48	24.0429827	0.00000759	0.0001021	-0.2028	49421.9	53101.7	7	0.092	
0111+021	P_0111+021	32	1	13	43.1449464	+2	22	17.3163494	0.00000188	0.0000445	-0.439	44227.2	53262.2	211	0.247	
0112-017	P_0112-017	33	1	15	17.09993886	-1	27	4.5770628	0.00000312	0.00000702	-0.6016	47254.9	52340.6	75	0.348	
0113-118	P_0113-118	34	1	16	12.52201537	-11	36	15.4344232	0.00000366	0.0000824	-0.651	43809.4	53196.8	65	0.512	

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)
		No.	H	M	S	H	M	S					
B1950	Common	1001	1	17	25.20311982	+14	18	12.4211296	0.000010502	0.00009133	0.5065	52431.4	74.4
0114+140	P0114+140	718	1	19	35.00040933	+32	10	50.050963	0.00131959	0.008788	0.3982	48975.9	70.5
0116+319	OC 328	37	1	20	31.66339821	-27	1	24.6526283	0.00001118	0.0002922	-0.3873	49960.7	60
0118-111	P0118-111	1002	1	21	28.99922688	+11	27	0.5066826	0.00003303	0.0016661	-0.0065	52039.8	57.1
0119+115	P0119+115	38	1	21	41.59504205	+11	49	50.4130018	0.00000652	0.0000144	-0.0582	47255.	37.9
0119+041	GC 0119+041	667	1	21	56.86169999	+4	22	24.7343252	0.0000066	0.0000155	-0.0941	45476.6	49
0123+257	P0123+257	40	1	26	42.79263083	+25	59	1.3001943	0.00000279	0.0000698	-0.1611	48377.8	5
0127+084	P0127+084	719	1	30	27.63435138	+8	42	46.1673322	0.00021149	0.0107481	0.9474	51927.2	35.4
0130-171	P0130-171	43	1	32	43.48746609	-16	54	48.5217576	0.00000664	0.0001418	0.0285	50800	121
0131-522	P0131-522	720	1	33	5.76259695	-52	0	3.9460061	0.00004277	0.0005053	0.1924	48388.3	8
0133+476	DA 55	44	1	36	58.59480059	+47	51	29.1001281	0.0000095	0.000008	-0.225	43873.4	5
0135-247	P0135-247	721	1	37	38.34641443	-24	30	53.88575453	0.00000921	0.0002493	-0.3164	49789.9	723
0138-097	P0138-097	722	1	41	25.83214458	-9	28	43.6743121	0.00000419	0.0001101	-0.046	49960.5	8
0144+584	P0147+58	1003	1	47	46.54094129	+58	40	44.697913	0.00008494	0.000812	0.3403	52431.2	83.3
0146+056	P0146+056	668	1	49	22.37088515	+5	55	53.568602	0.0000269	0.0005575	-0.4365	47254.9	103.2
0147-076	P0147-076	1004	1	50	2.69673063	-7	25	48.4952735	0.00137717	0.018962	0.8294	53192.3	1
0148+274	GC 0148+274	52	1	51	27.1461821	+27	44	41.7936188	0.00000349	0.0000779	-0.3222	48719.9	29.8
0148+546	P0148+546	1005	1	51	36.28579423	+54	54	37.692894	0.00005953	0.0007315	-0.2144	53131.5	47.4
0149+218	P0149+218	53	1	52	18.05094111	+22	7	7.6998651	0.00000174	0.0000431	-0.2923	47301.6	62
0150-334	P0150-334	54	1	53	10.12173745	-33	10	25.8614539	0.00003626	0.0004586	-0.4805	49960.7	99.2
0151+474	P0151+474	723	1	54	56.28987192	+47	43	26.5394077	0.00000586	0.0000077	0.1796	49749.9	46.1
0152-043	P0152-043	1006	1	55	3.72575864	+4	38	30.3540108	0.00004477	0.0020654	0.0865	52939.9	6
0153+744	P0153+744	1007	1	57	3.96486957	+74	42	43.2298129	0.00005896	0.0003076	-0.1522	53209.7	84.8
0159+418	J0202+4205	1008	2	2	43.65345657	+42	5	16.333565	0.00010508	0.0005587	0.0443	51696.7	23.5
0159+723	P0159+723	724	2	3	33.38496466	+72	32	53.6674924	0.00002431	0.0000958	0.0266	48352.9	55.1
0201+113	P0201+113	57	2	3	46.65705658	+11	34	45.4096077	0.00000982	0.00000203	-0.2396	45432.7	36.1
0202+149	P0202+149	58	2	4	50.41389482	+15	14	11.0436503	0.00000661	0.0000115	-0.1324	44203.1	39.3
0202-172	P0202-172	60	2	4	57.67435084	-17	1	19.84062721	0.00000559	0.00001632	-0.013	49749.8	40.6
0202+319	DW 0202+319	59	2	5	4.92535788	+32	12	30.0955374	0.0000022	0.00000387	-0.213	48196.4	1.153
0208-512	P0208-512	725	2	10	46.20041667	-51	1	1.8918954	0.00000338	0.00000421	0.1334	47304.8	31.3
0212+735	P0212+735	669	2	17	30.81335889	+73	49	32.6219076	0.00000275	0.0000102	-0.2766	44927.9	84.3
0215+015	P0215+015	726	2	17	48.95475234	+1	44	49.6992415	0.00000273	0.00000796	-0.2169	50003.2	52.4
0218+357	GC 0218+357	727	2	21	5.46712212	+35	56	13.7340987	0.00037831	0.0022057	0.7104	48931.2	30.9
0219+428	P0219+428	728	2	22	39.611150348	+43	2	7.79902123	0.00000585	0.00000968	-0.0853	48649.9	10.5
0220+349	P0220+349	729	2	22	56.01625368	-34	41	28.70304152	0.0000165	0.00002327	-0.0529	49702.2	11.18
0221+06	P0221+06	67	2	24	28.42819166	+6	59	23.3415593	0.00000243	0.000054	-0.5483	47255.	77
0222+185	P0222+185	1009	2	25	4.663889569	+18	46	48.7669201	0.00003066	0.00003964	0.051	52430.9	34.4
0224+671	DW 0224+671	68	2	28	50.05147899	+67	21	3.0295422	0.00000435	0.00000316	-0.1103	44089.1	37.7
0230-790	P0230-790	730	2	29	34.94665561	-78	47	45.6009317	0.0001761	0.00051	-0.2534	48388.2	139.4
0227+403	P0227+403	1010	2	30	45.71078121	+40	32	53.0683954	0.00003364	0.00004701	-0.1227	52431.6	45.9
0229+131	P0229+131	69	2	31	45.89405167	+13	22	54.7162842	0.00000559	0.0000116	-0.1382	45814	49.2
0235-618	P0235-618	1011	2	36	53.24580792	-61	36	15.1849684	0.00059714	0.0026737	-0.0269	53164.9	38.9
0234+285	CTD 20	71	2	37	52.40567723	+28	48	8.99008	0.0000064	0	44203	53196.8	37.3
0235+164	GC 0235+164	72	2	38	39.93010457	+16	36	59.2746699	0.0000062	0.0000115	-0.1167	44203.2	40.8
0237-027	P0237-027	73	2	39	45.47227826	-2	34	40.9148581	0.000003	0.0000923	-0.3608	49253.4	28.9
0237+040	GC 0237+040	74	2	39	51.26305031	+4	16	21.4117786	0.00000424	0.0000913	-0.5395	47381.4	37.7

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)		
		No.	H	M	S	H	M	S								
B1950	Common	75	2	40	8.17437371	-23	9	15.7300532	0.00001871	0.0002247	-0.7689	44227.2	53192.3	28	141.4	
0237-233	P 0237-23	731	2	40	31.664333967	+61	13	45.5935692	0.00009567	0.0005828	-0.5637	49847.9	51674.7	14	79.1	
0236+610	O 0236+610	76	2	41	4.79850274	-8	15	20.7517872	0.00000126	0.0046	48555.7	53068.7	324	0.093	46.1	
0238-084	P 0238-084	77	2	42	29.1708585	+11	1	0.727864	0.00000012	0.0000511	-0.5076	45151.8	53293.8	143	0.538	46.4
0239+108	OD 166	1012	2	43	30.8915506	+71	20	17.903998	0.00006095	0.00005326	-0.0764	52940.6	1	0.123	50.8	
0238-711	0238-711	732	2	44	57.69665512	+62	28	6.5157515	0.00004596	0.00002853	0.101	49930.6	53051.1	2	0.028	14
0241+622	0241+622	733	2	51	34.53673323	+43	15	15.8295792	0.00000736	0.00001013	-0.136	48719.9	53262.6	4		64.5
0248+430	0248+430	734	2	53	29.18043073	-54	41	51.4552766	0.00004774	0.00006548	-0.0788	48387.4	52387.8	4		120.7
0252-549	P 0252-549	79	2	53	34.88226945	+18	5	42.5244679	0.00000217	0.00004929	-0.6021	48977.4	52875.3	11	0.116	67.1
0250+178	GC 0250+17	1013	2	54	42.63200443	+39	31	34.7124794	0.00002908	0.00007149	0.051	52430.8	52431.5	1		63.9
0251+393	0251+393	81	2	59	27.07661814	+7	47	39.6431661	0.00000256	0.00000704	-0.2999	45151.9	53143.7	78	0.213	44.5
0256+075	OD 094.7	1014	3	2	22.73538033	+53	31	46.4844962	0.00008449	0.00005691	-0.1794	52431.1	52431.7	1		49.1
0258+533	0258+533	670	3	2	30.54676279	+12	18	56.7507962	0.00001248	0.00003629	-0.3725	46709.6	52480.3	16	0.031	130.4
0259+121	0259+121	82	3	3	35.24221969	+47	16	16.275475798	0.00000122	0.00000114	-0.2147	43808.6	53234.5	441	0.782	59.3
0300-470	OE 400	735	3	3	50.63133371	-62	11	25.5494833	0.00002657	0.00002406	0.1686	48387.5	50182.5	5		89.7
0302-623	P 0302-623	736	3	6	42.65955181	+62	43	2.0241959	0.00000531	0.00000451	-0.0708	48613.2	52911.2	49		48.5
0302+625	0302+625	1015	3	8	26.22379044	+4	6	39.3005341	0.000000594	0.00001524	-0.0409	53200.8	53283.7	2		48.8
0305+039	0305+039	671	3	9	3.62350643	+10	29	16.340987	0.00000329	0.00000675	-0.4724	47255	53165.2	52	0.518	44.2
0306+102	0306+102	1016	3	9	22.09672118	+27	38	54.3644427	0.000004722	0.0023338	0.0132	52939.9	52940.1	1		31.2
0306+274	0306+274	737	3	9	56.09913874	-60	58	39.0559506	0.00001161	0.0001154	0.1095	48643.7	52388.7	20		74.1
0308-611	0308-611	738	3	11	55.25009071	-76	51	50.8474439	0.00032512	0.00007754	0.821	50258.7	53129.5	3		90.4
0312-770	0312-770	672	3	13	1.96210759	+41	20	1.1838937	0.00000319	0.00000574	-0.2002	46611	53248.7	76	0.339	35.2
0309+411	0309+411	87	3	19	48.16012061	+41	30	42.1035949	0.00000503	0.000001915	0.0893	44088.7	53201.7	80		84
0316+413	3C 84	88	3	19	51.25672954	+19	1	31.2908139	0.00000365	0.00000795	-0.5856	53202.4	53256.7	68	0.24	45.2
0317+188	P 0317+188	89	3	21	53.10350338	+12	21	13.9537913	0.00000375	0.00001082	-0.6261	49790.1	53213.5	9		39.3
0319+121	P 0319+121	1017	3	25	36.81413555	+22	24	0.3660517	0.00000356	0.00000882	-0.284	51532.9	53158.6	3		25.2
0322+222	0322+222	673	3	27	54.19500983	+2	33	41.982159	0.00001971	0.00004708	0.5174	53067.9	53206.7	1		38.4
0325+023	UGC02748	739	3	29	57.66942176	+27	56	15.49921	0.00000974	0.00001292	-0.6797	46610.9	51664.1	26	0.185	50.3
0326+277	0326+277	93	3	34	9.94767253	+2	26	9.6477569	0.00012651	0.00019106	0.1805	50553.9	50800.1	3		84.1
0331+022	0331+022	744	3	34	13.65449199	-40	8	25.3975963	0.00001734	0.0001544	-0.7559	43809.4	51663.9	37	0.378	25.2
0332+403	P 0332+403	745	3	35	53.9249551	-54	30	25.1136272	0.00004859	0.0006925	0.039	48388.3	51787.8	5		107.1
0334-546	0334-546	740	3	36	30.10760485	+32	18	29.3423452	0.00000176	0.0000298	-0.1653	43808.7	53131.6	106	0.943	36.6
0335+321	NRAO 140	94	3	36	47.30335615	+0	35	16.6232189	0.00092626	0.0433115	0.9299	49987.3	50002.4	2		86.5
0334+004	HR 1099	741	3	36	54.02535492	-36	16	6.2241944	0.00028337	0.0004453	-0.107	50918.9	53079.9	5		72.6
0335-364	0335-364	742	3	37	17.10845945	+1	37	22.7530061	0.00065355	0.00873927	0.7935	49177.6	53066.8	2		59.5
0334+014	0334+014	743	3	39	30.93779006	-1	46	35.8041443	0.00000555	0.0000123	-0.1479	44203.1	53307.6	823		40.9
0336-019	CTA 26	95	3	40	35.60786661	-21	19	31.1720087	0.00000387	0.00001242	-0.1769	49973.1	52212.5	22		49.5
0338-214	P 0338-214	1019	3	43	28.9523845	+36	22	12.430017	0.0000152	0.00003246	-0.2906	51696.2	51696.8	1		46
0340+362	J0343+3622	745	3	44	23.17215101	+15	59	43.3693294	0.00000333	0.00001022	-0.2345	47381.4	53196.9	38	0.165	44.5
0341+158	0341+158	1020	3	45	6.41654977	+14	53	49.5580196	0.00000354	0.00006688	-0.325	46337.6	52291.4	50	0.144	38.2
0346+800	0346+800	1021	3	54	46.12587572	+80	9	28.84735757	0.00014305	0.0003509	0.0163	52430.8	52431.6	1		61.2
0352+605	0352+605	1022	3	56	25.1987968	+60	43	57.9805	0.00004711	0.0004051	0.0172	52939.7	52940.6	1		47.9
0354+231	0354+231	744	3	57	21.60987827	+23	19	53.8257323	0.00001894	0.00002882	-0.0014	52984.8	52989.6	2		80.8
0355-483	0355-483	746	3	57	21.91787487	-48	12	15.1602262	0.0001102	0.003443	0.8605	49330.7	50182.4	2		98
0355+055	0355+055	1023	3	57	46.12585103	+5	42	31.2602459	0.00001868	0.0007505	0.6097	52431.4	52431.4	1		68.1
0355+508	0355+508	99	3	59	29.74727741	+50	57	50.1618724	0.00000515	-0.1085	44088.8	53235.5	71	1.97	51.6	

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)		
		No.	H	M	S	H	M	S								
B1950	Common	1024	4	1	45.16606342	+21	10	28.5871995	0.00001153	0.0743	52968.9	2	0.385	52.1		
0358+210	J0401+2110	101	4	2	21.26598225	-31	47	25.9451375	0.00000917	-0.3715	49329.7	6		48.3		
0400-319	P 0400-319	100	4	3	58.604911	+26	0	1.5027358	0.00000722	-0.4108	44947.5	53269.7	62	0.422	64.8	
0400+258	CTD 26	102	4	3	53.7498924	-36	5	19.131418	0.00000151	0.09035359	-0.0191	43873.2	53309.4	463	0.752	52.5
0402-362	P 0402-362	103	4	5	34.00338709	-13	8	13.6914657	0.00000324	-0.242	50765.5	53196.8	10	0.977	30.4	
0403-132	P 0403-13	104	4	6	59.03532993	-38	26	28.0423696	0.00000365	-0.1552	49330.7	53297.7	150		49.3	
0405-385	P 0405-385	105	4	7	48.4309979	-12	11	36.6604231	0.00000763	0.0001974	-0.1092	50209.6	52480.7	4	0.475	48
0405-123	P 0405-12	747	4	8	20.37492637	-65	45	9.0786835	0.00340565	0.0141129	-0.1165	50258.9	50259.5	1		78.3
0407-658	P 0407-658	748	4	8	20.37758815	+30	32	30.490663	0.00001294	0.0003332	0.164	49032.8	52741.7	14	0.043	58.3
0405+304	P 0405+305	749	4	9	5.76971631	-12	38	48.1437634	0.0000045	0.000994	-0.5748	46797.3	5267.7	29	0.338	34.6
0406-127	P 0406-127	107	4	9	22.00871261	+12	17	39.8476409	0.00000306	0.0006632	-0.4698	44203.1	53220.6	77	0.225	45.8
0406+121	GC 0406+12	109	4	12	43.66687334	+23	5	5.527214	0.0000031	0.0000649	-0.1944	50518.8	53038.7	13	0.184	40.2
0409+229	P 0409+229	1025	4	15	56.2652271	+44	52	49.6840359	0.00006398	0.0005097	-0.6108	51696.8	51696.8	1	0.341	53.5
0412-447	J0415-4452	112	4	16	36.5444808	-18	51	8.3400256	0.00000612	0.0001488	-0.0509	49790	51319.5	7		61.1
0414-189	P 0414-189	1026	4	18	21.27721327	+38	1	35.80051	0.00000943	0.0001321	0.1641	51464.1	51533	4		48.6
0415+379	3C 111	116	4	23	15.80072343	-1	20	33.0652753	0.00000078	0.0000193	-0.1902	43873.3	53297.6	726	2.379	54.8
0420-014	P 0420-01	115	4	23	56.00978245	+41	50	27.130187	0.0000034	0.0000597	-0.1876	44203.1	52830.7	13	0.928	27.6
0420+417	VRO 41.04.01	750	4	24	42.24370775	-37	56	20.7843489	0.00000697	0.0002071	0.1057	48387.4	53115.6	10	0.521	41.4
0422-380	P 0422-380	118	4	24	46.84205555	+0	36	6.3295491	0.00000385	0.000112	0.0116	50254.8	53234.7	9		41.1
0422+004	P 0422+00	120	4	26	36.60409245	+5	18	19.8714025	0.00000966	0.0003453	-0.2193	49254.4	53171.5	3		46.7
0423+051	P 0423+051	1027	4	26	50.07005684	+68	25	52.9302144	0.00013189	0.000654	0.0278	52940.4	52940.7	1		39.7
0421+683	P 0421+683	119	4	26	55.73479626	+23	27	39.6337571	0.00001384	0.0003806	-0.2779	50560.8	53087.6	7		71.1
0423+233	GC 0423+23	121	4	27	47.57052288	+4	57	8.32508088	0.00000524	0.000112	-0.655	46609.5	52543.6	32	0.153	27.7
0425+048	P 0425+048	122	4	28	40.42426261	-37	56	19.5807836	0.00001421	0.0002269	-0.1513	50258.8	53108.5	4		46.7
0426-380	P 0426-380	751	4	29	52.96077054	+27	24	37.87673065	0.00000384	0.0000384	-0.1027	50525.9	53201.2	20	0.336	54.9
0426+273	P 0426+273	751	4	31	57.38101806	+17	31	35.7972564	0.00052164	0.007282	0.9657	52940.2	52940.4	1		30.8
0429+174	P 0429+174	1028	4	33	11.09552539	+5	21	15.6191085	0.00000833	0.0000216	-0.0659	43808.6	53068.6	97		45.1
0430+052	3C 120	752	4	33	37.82985643	+29	5	55.4771158	0.00000189	0.0000362	-0.1497	50042.9	53045.6	31	0.183	38.7
0430+289	P 0430+289	126	4	37	1.48273122	-18	44	48.6135782	0.00000359	0.00006648	-0.7194	44227.3	53264.7	186	0.357	46.5
0434-188	P 0434-188	753	4	39	0.85466409	-45	22	22.5631601	0.00003957	0.0003684	-0.4119	49329.7	53165.2	3		61.8
0437-454	P 0437-454	1029	4	40	7.87159336	+42	44	40.2592032	0.00005627	0.0006172	0.4314	51696.4	51696.4	1		85.7
0436-426	P 0440-4244	127	4	40	17.17993528	-43	33	8.6036806	0.0001448	0.0001396	-0.4755	43809.4	52096.5	40	0.734	86.8
0438-436	P 0438-43	129	4	42	38.66073952	-0	17	43.4206083	0.00002441	0.0000669	-0.3013	43873.3	53196.9	27	0.554	43.8
0440-003	NRAO 190	675	4	43	31.63520197	+34	41	6.6641383	0.00000238	0.0000448	-0.1732	46757.5	51716.6	40	0.158	48.4
0440+345	P 0440+345	754	4	48	48.56569158	-74	17	31.250551	0.00051094	0.0663	50181.9	51324.1	1		34.5	
0446-112	P 0446-111	131	4	49	7.67109468	+11	21	28.5065151	0.00000242	0.00006162	-0.2414	47255.1	51569.7	30	1.267	19.8
0444+634	P 0444+634	755	4	50	23.31057939	+63	32	9.4340518	0.00000435	0.00000337	-0.0876	49422	51569.7	7	0.523	37.5
0454-810	P 0454-81	756	4	50	5.44017586	-81	1	2.2312945	0.000006652	0.0000135	-0.1056	48387.5	50259.6	5		69.6
0451-282	P 0451-28	132	4	53	14.64678094	-28	7	37.3271693	0.0000069	0.0001104	-0.6031	44227.3	53196.8	26	0.353	65.1
0454-463	P 0454-46	757	4	55	50.77252625	-46	15	58.6796083	0.00000308	0.02859	49015.2	53192.5	2		53.8	
0454-234	P 0454-234	758	4	57	3.17922464	-23	24	52.0201244	0.0000074	0.000164	-0.1504	46844.9	53307.3	1180	0.876	54.2
0454+550	P 0454+550	1030	4	58	54.8401799	+55	8	42.059597	0.00007001	0.000303	0.3312	52430.8	52431.6	1		79.1
0457-024	P 0457-024	136	4	59	52.05067726	+2	29	31.1764453	0.0000144	0.0033	49098.8	53164.7	38		67.6	
0458-020	P 0458-02	137	5	1	45.27082495	+13	56	14.2562399	0.00000556	0.0000128	-0.2273	47415.5	53307.3	1007	0.761	46.2
0458+138	P 0458+138	138	5	1	45.27082495	+13	56	7.2203438	0.00000377	0.0001012	-0.1186	46757.4	52910.4	30	0.087	38.4
0459+060	GC 0459+06	139	5	2	15.44594248	+6	9	7.4943303	0.00000532	0.0001112	-0.4391	47379.5	53196.9	19	0.205	32.3

Names	ID	Right Ascension			Declination			RA Error (arc sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)	
		No.	H	M	S	H	M	S							
B1950	Common	1031	5	2	33.21951115	+13	38	10.9593816	0.000010386	0.0004444	0.2088	52494.8	53193.7	3	71.7
0459+135	P 0459+135	141	5	3	21.19716756	+2	3	4.6766566	0.00000601	0.0001365	-0.2453	47255.1	52403.1	16	0.095
0500+019	P 0500+019	759	5	4	17.0109686	-60	49	52.5378789	0.0001447	0.0007972	0.6466	48387.5	52165.2	4	146.6
0503-608	P 0503-608	1032	5	4	54.30665847	+28	2	31.98111281	0.00004379	0.0010991	-0.0891	52940.2	52940.5	1	68.6
0501+279	P 0501+279	142	5	5	23.18471795	+4	59	42.7243097	0.0000255	0.000582	-0.3048	47379.5	53248.7	36	0.285
0502+049	P 0502+049	760	5	6	43.98876604	-61	9	40.9930362	0.000033832	0.0002912	0.2496	48387.5	49367.1	5	54.5
0506-612	P 0506-612	676	5	8	42.36347996	+84	32	4.5440751	0.00001808	0.0000278	-0.6111	45301	53311.4	108	0.195
0454+844	P 0454+844	677	5	9	27.45707844	+10	11	44.6001686	0.00000384	0.0000843	-0.5122	46757.4	52711.7	52	50.6
0506+101	P 0506+101	678	5	10	23.6913054	+18	0	41.5816131	0.00000358	0.0000504	-0.3795	46336.5	53129.7	63	0.692
0507+179	P 0507+179	1033	5	11	38.31966083	+13	57	19.1938099	0.00001675	0.0001988	0.3272	53205.7	53213.7	2	0.079
0508+138	P 0508+138	143	5	13	49.11427467	-21	59	16.0916363	0.0000153	0.0002243	-0.8553	46797.4	53196.9	26	0.593
0511-220	P 0511-220	761	5	16	37.71920069	-72	37	7.4653341	0.0003065	0.0007699	0.796	52591.1	53143.5	2	135.7
0517-726	P 0517-726	762	5	16	44.92618595	-62	7	5.388503	0.00003534	0.0003477	-0.0304	49329.7	52387.9	6	126.1
0516-621	P 0516-621	1034	5	18	3.82449789	+20	54	52.4978256	0.0001688	0.0001688	-0.421	52983.7	53213.7	3	71.1
0515+208	P 0515+208	1035	5	18	5.14254609	+33	6	13.3644882	0.00004302	0.0001926	-0.2319	52939.9	52940.6	1	56.3
0514+330	P 0514+330	145	5	21	9.88601752	+16	38	22.0520289	0.00003608	0.0008527	-0.13236	49254.4	50003.7	2	104.4
0518+165	3C 138	763	5	22	34.42546973	-61	7	57.1359376	0.00007237	0.0010293	-0.0444	48387.6	53165.7	3	18.9
0522-611	P 0522-611	146	5	22	57.98463474	-36	27	30.851002	0.00000487	0.0000973	0.2572	48387.5	53241.4	122	87.4
0521-365	P 0521-365	1036	5	24	13.43339113	+70	34	52.9060106	0.00006814	0.0003149	-0.046	52939.7	52940.6	1	56.9
0518+705	P 0518+705	764	5	25	31.40013278	-45	57	54.6852992	0.00002341	0.0002184	-0.097	49749.9	53165	10	82.8
0524-460	P 0524-460	1037	5	27	32.7054934	+3	31	31.5160088	0.00004323	0.0018915	-0.4242	51695.8	51696.8	1	77.2
0524+034	P 0524+034	765	5	29	30.0421922	-72	45	28.5070332	0.00002357	0.0001044	-0.1393	49029.5	53297.3	33	93.8
0530-727	P 0530-728	147	5	30	7.96279563	-25	3	29.8988796	0.00000524	0.000191	-0.2349	48643.8	52991.6	12	44.5
0528-250	P 0528-250	148	5	30	56.41674372	+13	31	55.1495706	0.00000442	0.0000988	-0.2618	44203.1	53297.7	1655	1.297
0528+134	P 0528+134	766	5	32	38.99816655	+7	32	43.33852118	0.00078292	0.0058961	0.7906	48976.5	1	29.5	
0529+075	QG 050	1038	5	33	15.86580303	+48	22	52.807675	0.00001492	0.00001811	-0.0823	51695.9	51696.8	1	56.9
0529+483	P 0533+4822	148	5	33	56.48496363	+42	10	54.4208684	0.000008032	0.0009154	0.1643	52430.9	52431.5	1	86.1
0530-421	P 0530-421	1039	5	34	35.77266019	-61	6	7.0715067	0.00051341	0.0026859	-0.147	50181.6	53165.4	2	43.2
0534-611	P 0534-611	1040	5	36	28.43099902	-34	1	11.4731089	0.000807401	0.0243258	0.9991	53192.4	53192.5	1	101.3
0534-340	P 0534-340	149	5	38	50.36153819	-44	5	8.9395016	0.00000188	0.00000323	0.0286	43809.4	53297.7	356	65.1
0537-441	P 0537-441	768	5	39	32.01011068	-15	50	30.3206316	0.00001164	0.0003246	-0.4494	46806.4	51664	17	11.15
0537-158	P 0537-158	679	5	39	42.36598872	+14	33	45.5616971	0.00000218	0.0000437	-0.3473	46609.6	53220.7	78	32.5
0537-286	P 0537-286	769	5	39	54.28146579	-28	39	55.947971	0.00000512	0.0001215	-0.0012	48573.4	53165.4	17	51.7
0539-057	P 0539-057	770	5	41	38.0833703	-5	41	49.4284885	0.00000505	0.00014148	-0.1309	49176.9	53165.3	9	47.6
0538-498	3C 147	151	5	42	36.1379038	+49	51	7.2337244	0.00000478	0.0000585	0.50848.9	53297.6	4	47.9	
0544-273	P 0544-273	680	5	47	34.14892536	+27	21	56.8427121	0.00000302	0.0000555	-0.2413	46609.6	53131.3	59	0.263
0547+234	P 0547+234	1041	5	50	47.3908952	+23	26	48.1770176	0.00000949	0.0001718	0.083	53024.8	53293.7	17	60.7
0548+378	P 0552+3754	1042	5	52	17.93692811	+37	54	25.2832194	0.00007048	0.00007809	0.5929	51696	51696.2	1	50.7
0549+192	P 0549+192	1043	5	52	25.388507501	+19	13	40.2685099	0.000004827	0.00007696	-0.3584	52990.8	52991.6	1	0.068
0550+032	P 0550+032	1044	5	52	50.1010152231	+3	13	27.2398025	0.00013309	0.0061942	0.007	52940.3	52940.3	1	34.1
0552+398	DA 193	152	5	55	30.80561174	+39	48	49.1650764	0.00000433	0.0000079	-0.2836	43808.6	53311.6	1633	1.55
0554+242	P 0554+242	771	5	57	4.71357058	+24	13	55.2986859	0.00000607	0.0001023	0.2479	50065.1	51723.3	21	0.121
0556+238	P 0556+238	681	5	59	32.03313149	+23	53	53.9268654	0.00000192	0.00000192	-0.1423	46610.9	53276.5	332	0.368
0600+177	0600+177	682	3	4	55.1213802	+17	42	16.8106278	0.0000044	0.000073	-0.5613	46336.4	53227.7	53	0.168
0601+245	0601+245	1045	6	4	55.1206238	+24	29	55.0363661	0.00000579	0.0001137	0.0459	53024.8	53293.6	17	0.172
0602+405	0602+405	772	6	5	50.85536162	+40	30	8.1033812	0.00000648	0.0001006	0.1553	50254.8	53150.7	4	0.521

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)			
		No.	H	M	S	H	M	S								
B1950	Common	773	6	7	52.67161894	+67	20	55.4100337	0.00000165	-0.00643	49750	53311.6	138	0.093	44.5	
0602+673	0602+673	158	6	7	59.69922748	-8	34	49.978191	0.00000252	-0.4808	43808.7	53196.9	57	0.739	40.4	
0605-085	P 0605-08	160	6	9	40.94952409	-15	42	40.6726076	0.00000118	0.0000189	0.0167	43873.3	53297.7	185	1.836	38.3
0607-157	P 0607-15	1046	6	13	36.36002715	+17	8	24.9403693	0.00000333	0.00285	0.7143	52757.8	52758.6	1		78.8
0610+171	0610+171	774	6	13	50.13917177	+26	4	36.7190339	0.00000644	0.0001144	-0.264	50065.1	53108.6	13	0.138	58.1
0610+260	3C 154	683	6	13	57.69275438	+13	6	45.4006373	0.0000032	0.0001174	-0.0521	47379.6	53066.7	25	0.185	42.6
0611+131	0611+131	775	6	14	23.86617527	+60	46	21.7561329	0.00000568	0.0000564	-0.1858	50003.2	52340.3	4	0.11	38
0609+607	0609+607	1047	6	14	49.15932539	+51	2	13.1171788	0.00006731	0.0009215	0.4114	52431.2	52431.6	1		54.3
0610+510	0610+510	1048	6	16	35.98097384	-34	56	16.5632769	0.00006347	0.0145062	0.3448	53068.8	53068.2	1		139.4
0614-349	P 0614-349	1049	6	17	16.9225823	+57	1	16.423343	0.00002123	0.0001802	-0.0131	51695.9	51695.8	1	0.279	81.6
0613+570	J0617+5701	776	6	24	19.02130018	+38	56	48.7362678	0.00000666	0.0001096	-0.1466	49391	53283.6	6	0.292	45.7
0620+389	0620+389	1051	6	26	30.0614141	+82	2	25.5679708	0.00001895	0.000378	0.0228	48352.9	53158.7	37	0.203	45.8
0615+820	0615+820	1050	6	27	38.28370139	+3	24	59.4829908	0.00005792	0.0036093	0.0448	52940.3	52940.3	1		75.4
0625+034	0625+034	778	6	31	11.99787218	-41	54	26.9463945	0.00004433	0.0006464	-0.0929	49790.2	53192.4	5		152.9
0629-418	0629-418	1052	6	32	30.78290372	+32	0	53.6305598	0.0000591	0.000879	-0.16	52430.8	52431.6	1		92.5
0629+320	0629+320	779	6	32	43.13554832	+15	59	57.6222653	0.00002391	0.0009888	-0.0611	53205.9	53213.6	2		59.2
0629+160	0629+160	780	6	35	46.50785971	-75	16	16.8153182	0.0000072	0.0000295	0.0065	47973.1	53136.6	179		71
0637-752	P 0637-75	1052	6	37	51.05227594	+14	58	57.2853121	0.00003145	0.0008509	0.0176	52431.4	52431.7	1		81.3
0637-337	P 0637-337	167	6	39	20.90456112	-33	46	0.1135529	0.000036553	0.0003003	0.0687	51115.5	53192.5	4		98
0636+680	0636+680	781	6	42	42.25743726	+67	58	35.6205885	0.00000997	0.000573	-0.352	48572.9	53276.7	23		49.9
0642+214	3C 166	169	6	45	24.09951113	+21	21	51.2015771	0.00000974	0.0001523	-0.7185	46659	511664.2	32	0.214	80.8
0642+449	OH 471	171	6	46	32.02590902	+44	51	16.5901625	0.00000555	0.000089	-0.0888	48572.8	53311.7	626	1.982	32.1
0646-306	P 0646-306	173	6	48	14.09647041	-30	44	19.6598822	0.00000826	0.0001286	-0.6028	49030.2	53192.5	20	0.166	48
0648-165	0648-165	782	6	50	24.58187277	-16	37	39.7258575	0.00000545	0.0001329	-0.1253	50048.6	53192.4	9	1.255	29.1
0650+371	0650+371	783	6	53	58.282817	+37	5	40.6067662	0.00000377	0.00001302	-0.2293	48348.3	53197	74	0.317	63.7
0651+410	0651+410	784	6	55	10.02472838	+41	0	10.1601639	0.00000702	0.0001302	-0.1591	51295.9	53158.6	6	0.107	41.6
0654+244	0654+244	1053	6	57	5.67583389	+24	23	55.3953155	0.00003617	0.0004632	-0.0119	52940.5	52940.5	1	0.094	45.4
0656+082	0656+082	785	6	59	17.99603127	+8	13	30.9537144	0.00000285	0.0000894	-0.4545	52430.8	53297.5	77		47.2
0657+172	0657+172	684	7	0	1.52553116	+17	9	21.7015927	0.0000013	0.0000276	-0.2686	46336.4	53262.7	196	0.472	45.5
0707+476	0707+476	786	7	10	46.10488512	+47	32	11.1427826	0.00000539	0.0000839	-0.2077	50254.8	53241.4	5	0.284	57.8
0709+008	0709+008	1054	7	11	47.32410595	+0	48	19.7128765	0.00072327	0.0101177	0.4736	52940.3	52940.3	1	1.4	
0709+509	0709+509	1055	7	13	12.89624933	+50	53	43.8919103	0.00006106	0.00009004	0.3694	52431.1	52431.7	1		60.1
0710+439	OI 417	177	7	13	38.16412042	+43	49	17.2067739	0.00000559	0.0000973	-0.0077	48352.9	53201.7	23		86.1
0711+356	0711+356	787	7	14	24.81745967	+35	34	39.7968837	0.00000838	0.0001352	-0.2103	49254.5	53142.8	6	0.039	41.1
0716+714	0716+714	788	7	21	53.44849389	+71	20	36.3634892	0.00000579	0.0001331	0.0294	47415.5	53262.6	97	0.908	37.4
0722+145	P 0722+145	685	7	25	16.80776408	+14	25	13.7466147	0.00002277	0.0000664	-0.2137	47253.2	53171.7	20	0.426	28.2
0723-008	DW 0723-00	180	7	25	50.63995973	-0	54	56.5444739	0.0000036	0.0000836	-0.5371	44203.2	52543.7	48	0.494	40.1
0718+792	0718+792	789	7	26	11.73527447	+79	11	31.0162561	0.00000432	0.00001119	0.1616	49421.9	53311.6	579	0.282	54.1
0725+219	0725+219	1056	7	28	20.60829827	+21	53	6.3904916	0.00000873	0.0001322	-0.0271	52963.8	52968.6	2	0.213	51.6
0727-115	P 0727-115	182	7	30	19.11246353	-11	41	12.6004331	0.00000553	0.00001113	-0.0928	43808.7	53307.7	1443	1.855	47
0728+249	J0731+2451	1057	7	31	33.74544463	+24	51	58.5983932	0.0000182	0.0005203	0.4392	52991.9	53020.6	3	0.147	17.2
0731+050	J0733+0456	1058	7	33	57.4599679	+4	56	14.4957744	0.00008519	0.0017	-0.376	51695.9	51695.5	1		88.1
0733-174	P 0733-17	188	7	35	45.81242618	-17	35	48.5043579	0.00001787	0.0004106	-0.0725	49267.4	53165.3	8	0.282	54.1
0735+178	P 0735+178	190	7	38	7.39374333	+17	42	18.9982411	0.00000166	0.000166	0.0134	43808.7	53177.1	396	0.398	53.9
0736-332	P 0736-332	790	7	38	16.96290164	-33	22	12.8257792	0.000548225	0.0250225	-0.8705	50259.2	50259.2	1		25.9
0738-674	0738-674	791	7	38	56.49621868	-67	35	50.8249013	0.00005788	0.00009448	0.04331	48387.6	50259.4	3		127.5

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)		
		No.	H	M	S	H	M	S								
B1950	Common	192	7	39	18.03389083	+1	37	4.6179339	0.00000252	-0.5206	47253.2	53197.1	65	0.875	39.2	
0736+017	P 0736+01	193	7	41	10.70331508	+31	12	0.2281866	0.00000243	0.00000426	43808.7	53234.6	22	1.193	39.8	
0738+313	OJ 363	792	7	42	2.74893596	+49	0	15.6090198	0.00000551	0.00006689	-0.1071	49750.1	53290.6	5	44.1	
0738+491	OJ 363+491	196	7	45	33.05952058	+10	11	12.6922803	0.00000233	-0.1991	43808.7	53230.7	211	0.575	38	
0742+103	DW 0742+10	197	7	45	54.08230269	-0	44	17.5397841	0.00000229	-0.0000577	-0.4283	48352.9	53197.1	57	0.815	30.8
0743+006	P 0743+006	198	7	46	25.87417207	+25	49	2.134802	0.00000114	0.0000198	-0.00566	47253.2	53311.7	159	0.377	43.3
0743+259	GC 0743+25	1059	7	46	40.43240777	+27	34	59.0466444	0.00002411	0.0003334	0.1267	52939.7	52940.5	1	0.212	55.4
0743+277	OJ 43+277	1060	7	48	36.10927764	+24	0	24.1100716	0.00000197	0.0000395	-0.2605	45432	53269.6	165	0.379	47.3
0745+241	B2 0745+24	200	7	50	52.04572838	+12	31	4.8283352	0.00000134	0.0000304	-0.2627	44203.3	53307.7	146	0.908	38.4
0748+126	P 0748+126	202	7	53	1.3845704	+53	52	59.637119	0.00000384	0.0000097	0.1367	48353.1	53311.6	370	0.598	52.8
0749+540	OJ 49+540	793	7	57	6.64295703	+9	56	34.8519916	0.00000331	0.00000752	-0.4576	47253.2	53197.1	39	0.614	26.7
0754+100	P 0754+100	206	7	60	48.03197033	+18	9	49.2493239	0.00000739	0.0001439	-0.1571	51695.9	52277.6	3	0.276	57.9
0759+183	J0802+1809	1060	8	2	57.53856443	+4	32	34.5311042	0.00001007	0.0001913	-0.228	50959.8	53136.6	10	64.5	
0805+046	OJ 0805+046	794	8	7	15.53602802	-7	51	9.88635742	0.00000274	0.0000664	-0.5017	46797.4	53136.6	55	0.691	42.1
0805+077	P 0805+077	210	8	8	39.66628773	+49	50	36.5304782	0.0000055	0.0000084	0.1075	48377.9	53311.2	605	0.566	45.1
0804+499	OJ 508	795	8	8	15.99960553	+42	22	45.4149408	0.00000226	0.0000326	-0.0815	43808.8	53197.1	185	0.655	48
0805+410	OJ 0805+410	796	8	8	56.65204191	+40	52	44.8888801	0.00000089	0.0000149	-0.0132	48720	53311.6	289	0.567	47.5
0808+019	P 0808+019	211	8	11	26.70730258	+1	46	52.2203328	0.00000113	0.00000194	-0.0644	48352.9	53241.7	163	0.558	43.3
0812+367	OJ 0812+367	797	8	15	29.94485974	+36	35	15.1486914	0.00000579	0.00009066	0.1275	50849	53038.6	4	0.672	36
0814+425	OJ 425	214	8	18	15.99960553	+42	22	45.4149408	0.00000226	0.0000326	-0.0815	43808.8	53197.1	185	0.655	48
0818-128	P 0818-128	216	8	20	57.44761312	-12	58	59.1695766	0.00000522	0.0001512	-0.1982	49482.1	53150.7	15	0.11	42.9
0821+248	OJ 821+248	1061	8	24	33.0937316	+24	38	43.1150676	0.000003311	0.0000018	-0.2361	52939.9	52940.6	1	0.206	56.7
0820+560	OJ 820+560	702	8	24	47.2363585	+55	52	42.6694925	0.00000294	0.00000237	-0.0513	47282.9	53050.4	25	0.185	40.3
0821+394	OJ 821+394	798	8	24	55.483585381	+39	16	41.9041548	0.00000347	0.00000518	-0.2048	49268.4	53297.7	6	0.941	38.3
0822+137	J0825+1332	799	8	25	11.89093461	+13	32	32.5382911	0.00000455	0.0001442	0.0434	51696	52009.6	3	0.19	33.5
0823+500	OJ 823+500	800	8	25	26.86530883	-50	10	38.4770384	0.0026940	0.011142	-0.6497	50259.2	50259.5	1	92	
0821+621	OJ 821+621	801	8	25	38.61219647	+61	57	28.5794354	0.00000644	0.00000399	0.1788	49422	52543.6	11	0.139	47.1
0823+033	P 0823+033	221	8	25	50.33835008	+3	9	24.5200425	0.00000552	0.00000135	-0.0833	44200.7	53297.6	718	0.774	42.8
0824+355	OJ 824+355	1062	8	27	38.58839474	+35	25	5.0751216	0.00004033	0.00006523	-0.1028	52939.8	52940.5	1	54.9	
0826-373	OJ 826-373	802	8	28	4.78022108	-37	31	6.281239	0.00001324	0.00002109	-0.0377	50181.6	52253.8	7	70.3	
0827+243	B2 0827+243	224	8	30	52.0861872	+24	10	59.8204822	0.0000019	0.00000357	-0.1961	44200.7	53197	88	0.754	42.5
0829+046	MA 0829+046	226	8	31	48.87694221	+4	29	39.0857666	0.00000337	0.00000926	-0.052	50324.5	53164.6	8	0.28	37.1
0828+493	OJ 448	225	8	32	23.21671747	+49	13	21.0384063	0.00000501	0.0000066	0.1398	48352.9	53311.6	19	0.129	39.1
0831-445	OJ 311-445	803	8	33	22.33085764	-44	41	38.8820885	0.01353601	0.1615906	-0.9897	49330.9	53311.6	1	0	
0831+557	OJ 55.16	228	8	34	5.90394331	+55	34	21.0750518	0.00002761	0.0001944	-0.1916	48975.7	53269.6	5	0.027	45.4
0834-201	P 0834-201	804	8	36	39.21523212	-20	16	59.5042123	0.0000237	0.0001811	-0.1529	49425.7	53165.4	4	37.5	
0833+585	OJ 55.16	805	8	37	22.40967584	+58	25	1.8448887	0.0000437	0.000112	48553.2	53311.5	37	0.465	36.6	
0834+250	OJ 259	1063	8	37	40.24569419	+24	54	23.121551	0.00000807	0.0001862	-0.0912	52985.1	52989.7	2	0.305	50.7
0836+290	OJ 836+290	1064	8	39	15.8276658	+28	50	38.8033867	0.00000933	0.00003292	-0.2042	53067.9	53068.3	1	0.079	55.7
0836+710	4C 71.07	231	8	41	24.3652822	+70	53	42.1730608	0.00000406	0.0000021	0.1264	44202.9	53220.7	11	1.154	30.1
0839+187	GC 0839+187	234	8	42	5.09417629	+18	35	40.9903683	0.00000266	0.0000818	-0.0212	48976.2	53276.4	15	0.075	46.1
0847+379	OJ 379	1065	8	50	24.72945515	+37	47	9.4813804	0.00008377	0.0012363	-0.5703	52430.9	52431.2	1	0.032	67.5
0851+071	4C 07.27	1066	8	53	48.18999639	+6	54	47.2411971	0.00004517	0.001199	0.1396	52430.9	52431.5	1	69.4	
0850+581	OJ 581	808	8	54	41.99642864	+57	57	29.939108	0.00000645	-0.0485	48720	53283.5	6	0.337	50.8	
0851+202	OJ 287	236	8	54	48.874925	+20	6	30.64088	0	0	43808.7	53197	1597	1.036	43.8	
0859-140	P 0859-14	240	9	2	16.83090298	-14	15	30.8755288	0.00001336	0.0001326	-0.8418	43808.7	53197	54	0.429	51
0859+470	OJ 499	239	9	3	3.99010295	+46	51	4.1372978	0.00000329	0.0000534	-0.1239	43808.9	53311.7	111	0.415	41.5

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)	
		No.	H	M	S	H	M	S							
B1950	Common	1067	9	5	41.76993103	+28	49	28.3020535	0.00008023	0.0037558	0.5276	52431.3	1	6.9	
0902+290	0902+290	1068	9	8	55.92533375	+16	9	54.76411111	0.00003791	0.0007935	0.0876	52430.8	1	0.146	
0906+163	0906+163	244	9	9	10.09158078	+1	21	35.6179833	0.0000644	-0.6995	48552.9	53197.1	22	0.774	
0906+015	P 0906+015	245	9	14	37.91543582	+2	45	59.24650298	0.00000802	-0.2983	47253.3	53197	25	0.608	
0912+029	P 0912+029	246	9	15	52.40163811	+29	33	24.0427812	0.00000974	0.0002506	-0.0552	49176.9	7	0.057	
0912+297	B2 0912+297	810	9	20	58.45848494	+44	41	53.985059	0.00000292	0.0000464	-0.1688	47940.5	53256.6	42	0.621
0917+449	0917+449	811	9	21	29.35383622	-26	18	43.386125	0.00000146	0.0000449	-0.1708	47736.7	53068.3	278	0.8
0919+260	0919+260	698	9	21	36.23107333	+62	15	52.1803207	0.00000227	0.0000162	-0.095	48720	53050.4	103	0.203
0917+624	0917+624	1069	9	29	43.0594398	+86	12	21.784878	0.000034938	0.0002634	0.3469	52940.1	53197	159	0.246
0920-397	P 0920-397	812	9	23	14.45292738	+38	49	39.9103304	0.00000333	0.0000643	-0.061	49736.1	38	57.7	
0920+390	0920+390	251	9	27	3.01393348	+39	2	20.8518961	0.0000043	0.0000603	0.0467	43808.8	53311.7	1625	1.46
0923+392	4C 39.25	686	9	27	51.82432028	-20	34	51.2326832	0.00000731	0.0001754	-0.3494	46797.5	53165.3	37	0.232
0925+203	P 0925+203	1069	9	29	59.0402739	-85	33	59.6840796	0.000610877	0.0007383	-0.0519	49329.1	49331	1	64.5
0916+864	0916+864	813	9	30	57.57402739	+9	15	7.8336184	0.000012367	-0.04832	51695.9	51697.1	1	0.202	
0936-853	0936-853	1070	9	35	13.64139804	+9	15	7.8336184	0.00007395	0.0071712	0.82	52940.4	52940.4	1	87.5
0932+094	J0935+0915	1071	9	35	23.27292372	+24	5	12.3173956	0.00002646	0.00003547	-0.3515	51696.8	51696.8	1	93.7
0932+243	0932+243	1072	9	37	12.32725626	+50	8	52.0989167	0.00000299	0.0000483	-0.1731	50003.5	53227.6	7	0.231
0933+503	J0937+5008	814	9	48	55.33812963	+40	39	44.5872066	0.000077412	0.0007011	-0.3707	52431.5	52431.7	1	58.1
0945+408	0945+408	1073	9	48	57.32025431	+0	22	25.5592584	0.0000063	0.000945	-0.2368	50809.2	53290.7	7	0.198
0946+006	J0948+00	815	9	52	32.02617355	+35	12	52.4030885	0.0000026	0.0000605	-0.2198	44200.7	53177.1	56	0.264
0949+354	0949+354	255	9	54	56.82361857	+17	43	31.2233625	0.00001079	0.0000377	0.254	49247.5	49267.7	2	163.5
0952+179	AO 0952+179	816	9	55	24.77473951	+69	1	13.7015361	0.0001754	0.0000495	0.2447	49247.5	52900.3	51	68.4
0951+692	M 81 nucl	817	9	55	33.17307712	+69	3	55.0609702	0.00001046	0.00004956	-0.01717	50973.9	50974.7	1	47.7
0951+693	M 81	818	9	56	22.63443872	+57	53	55.9043775	0.00002644	0.0000154	0.0662	44446.6	53311.5	494	0.19
0952+581	0952+581	256	9	56	49.87537099	+25	15	16.0498499	0.0000086	0.0000939	0.2869	50959.8	50989.8	2	50.6
0953+254	OK 290	819	9	57	38.18435352	+55	22	57.768475	0.000010464	0.0000939	0.2869	50959.8	50989.8	2	59.2
0954+556	4C 55.17	820	9	58	19.67164436	+47	25	7.8424669	0.00000663	0.000007	0.0591	48720	53311.6	852	41
0955+476	0955+476	259	9	58	20.94963952	+32	24	2.2096349	0.00000236	0.0000478	-0.2071	51283.8	53248.6	6	30.5
0955+326	3C 232	821	9	58	47.24511762	+65	33	54.8180441	0.00000313	0.0000219	-0.1307	47917.7	53150.5	120	0.48
0954+658	0954+658	822	10	1	59.910313	-44	38	0.6262651	0.000885244	0.0983552	-0.9999	50765.8	50765.8	1	62.9
0959+443	P 0959+443	823	10	6	14.00694951	-50	18	13.4491339	0.0120065	0.1239245	-0.9999	52067.3	52067.3	1	0
1004-500	1004-500	261	10	7	41.49807938	+13	56	29.600818	0.00000135	0.0000301	-0.2146	44200.7	53199.7	272	0.125
1004+141	GC 1004+141	1074	10	10	51.82901114	+33	30	17.7614437	0.00002422	0.0003835	-0.1169	51696.7	51696.7	1	94
1007+337	J1010+3330	824	10	13	53.42875632	+24	49	16.4406127	0.000002055	0.0000446	-0.1545	48553.1	53297.7	59	29.9
1011+250	1011+250	264	10	14	47.0654519	+23	1	16.571056	0.0000054	0.0000594	0.2869	53262.6	53262.6	26	0.447
1012+232	1012+232	1075	10	14	50.35510011	-45	8	41.1357808	0.00036531	0.033176	-0.9737	53191.6	53191.6	1	41.1
1012+448	1012+448	1076	10	16	44.32211669	+20	37	47.3052322	0.00001179	0.000352	0.2133	52968.8	52975.6	2	0
1013+208	OL 224	274	10	24	44.80958364	+19	12	20.4156224	0.0000015	0.0000367	0.0897	49422.1	51731.6	15	48.1
1013+615	1014+615	825	10	17	25.8875956	+61	16	27.4966668	0.0000053	0.00001496	-0.1813	51696.6	51696.6	1	54.6
1015+057	J1018+0530	1077	10	18	27.84828924	+5	30	29.9615394	0.000001496	0.00006762	-0.1813	51695.8	51695.8	1	48.8
1016-311	1016-311	1078	10	18	28.75349657	-31	23	53.8507803	0.00004473	0.0012669	0.3667	53191.5	53192.5	1	0.273
1020+400	1020+400	826	10	23	11.56565994	+39	48	15.3853431	0.0000266	0.0000448	-0.2563	50003.5	53276.7	8	0.462
1021+006	P 1021-00	273	10	24	29.58675462	-0	52	55.4956035	0.0000105	0.00002976	0.0831	48664.2	52480.7	4	65.1
1022+194	GC 1022+194	1079	10	25	56.28537466	+12	53	49.0221419	0.00000418	0.000075	-0.1596	52837.1	53306.8	51	0.364
1023+131	1023+131	827	10	33	37.0786558	+41	16	6.2327481	0.00000435	0.0000617	-0.1874	50849.1	53045.7	4	0.545
1030+415	1030+415	1070	10	33	34.02428647	+7	11	26.1477638	0.00000597	0.00001325	-0.2444	51722.9	53290.6	46	28.2
1030+074	1030+074	828	10	33	34.02428647	+7	11	26.1477638	0.00000597	0.00001325	-0.2444	51722.9	53290.6	46	73.7

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)		
		No.	H	M	S	H	M	S								
B1950	Common	829	10	35	2.15528007	-20	11	34.35950114	0.00000543	0.0001241	-0.14	48776.1	53192.4	10	0.618	37.6
1032-199	P 1032-199	277	10	35	7.03990179	+56	28	46.7955679	0.00002471	0.000233	0.4093	49328.2	53059.7	3		109.9
1031+567	OL 553	278	10	37	16.079171748	-29	34	2.8133333	0.00000125	0.0000243	0.0078	44200.6	53297.7	917	0.798	60.8
1034-293	P 1034-293	279	10	41	17.16250576	+6	10	16.923283	0.00000567	0.00002357	-0.3237	48524.7	53197.4	76	0.81	51.8
1038-064	OL 064-5	830	10	41	46.78163751	+52	33	28.2313167	0.00000312	0.00002357	-0.3237	44203.4	53290.2	142	0.371	73.6
1038-528	1038-52A	831	10	41	48.89765439	+52	33	55.6076781	0.0001213	0.00005599	-0.3294	48650.3	50065.4	6		185.2
1038+529	1038-52B	281	10	42	44.60523993	+12	3	31.2636942	0.00000649	0.0001301	-0.4179	44200.8	53269.5	27	0.109	54.5
1040+123	3C 245	1080	10	43	9.03579098	+24	8	35.4089787	0.00001282	0.000117	0.0005	51695.9	52968.3	3	0.156	37
1040+244	J1043+2408	832	10	44	23.06256034	+80	54	39.4429974	0.00000914	0.0000219	-0.0047	48553	53080.5	48	0.765	34.8
1042-071	P 1042-071	687	10	44	55.91124045	+6	55	38.2625863	0.00000404	0.0000919	-0.5853	47253.4	53197.1	36	0.255	35.4
1045-188	1045-188	833	10	48	6.62059843	-19	9	35.7266773	0.00000316	0.0000996	-0.3021	50764.9	53220.7	7	0.489	25.2
1044+719	1044+719	688	10	48	27.61993059	+71	43	59.9383214	0.00000196	0.0000072	0.0388	46925.4	53311.7	504	0.699	39.6
1048-313	P 1048-313	284	10	51	4.77476763	-31	38	14.3073526	0.00003948	0.0004389	-0.4114	50048.7	53165.4	4		47.2
1049+215	P 1049+21	834	10	51	48.78905527	+21	19	52.31318158	0.00000326	0.00006633	-0.1988	53283.7	53283.7	5	0.459	39.9
1053+704	1053+704	835	10	56	53.6175218	+70	11	45.9157273	0.00000518	0.0000297	0.0088	49120.5	53248.5	18	1.207	31.7
1053+815	1053+815	836	10	58	11.53539989	+81	14	32.6751186	0.00000638	0.00000129	0.0489	48720	53311.3	235	0.481	38.6
1055+018	P 1055+01	287	10	58	29.605119952	+1	33	58.8237324	0.0000012	0.0000318	-0.3278	44200.7	53197.2	315	2.187	44.7
1057-797	P 1057-79	837	10	58	43.30970053	-80	3	54.1598247	0.00001345	0.00000323	0.0779	47973	53297.4	169		74.9
1056+212	J1059+2057	1081	10	59	39.04276427	+20	57	21.9557033	0.000107	0.0006089	0.4141	52977.8	52982.9	2		26
1100+305	J1103+3014	1082	11	3	13.30186366	+30	14	42.7022712	0.0000193	0.0000252	-0.2953	51695.9	51696.7	1	0.14	52.9
1101-325	P 1101-325	290	11	3	31.52645708	-32	51	16.6937424	0.00004824	0.00006212	-0.1879	52067.2	53165.5	3		57.1
1101-536	1101-536	838	11	3	52.22164654	-53	57	0.9603668	0.00001099	0.00011774	0.2384	48387.5	52388.2	13		71.5
1101+384	B2 1101+38	291	11	4	27.31393788	+38	12	31.7990577	0.00000919	0.0000149	-0.1406	49965.8	53300.7	292	0.366	40.5
1104-445	P 1104-445	293	11	7	8.69411955	-44	49	7.6188038	0.00004559	0.0000636	-0.1157	43808.7	53248.2	156	0.735	95.1
1105-680	P 1105-680	839	11	7	12.69502893	-68	20	50.7275961	0.00014085	0.0000876	0.8331	48387.8	52378.8	4		112.7
1104+728	1104+728	840	11	7	41.72264697	+72	32	36.0047686	0.0000314	0.0001527	-0.3016	50798.8	51926.9	7		41.5
1105+437	1105+437	1083	11	8	23.47693885	+43	30	53.6575547	0.00002108	0.0003531	0.1205	52430.8	52431.5	1	0.068	61.4
1111+149	GC 1111+14	296	11	13	58.69507327	+14	42	26.9528441	0.0000043	0.0000907	-0.5977	44200.9	53197.1	39	0.235	30.5
1113+087	J1116+0829	1084	11	16	9.73229495	+8	29	22.0372517	0.00009324	0.0041398	-0.7559	51696.1	51696.1	1	0.376	18.2
1116-462	1116-462	841	11	18	26.95765588	-46	34	15.0017476	0.00004878	0.000544	-0.0262	48387.6	53165.6	6		53.6
1116+128	P 1116+12	297	11	18	57.30142796	+12	34	41.7180965	0.00000233	0.0000537	-0.2451	44250.6	53213.5	45	0.448	37.4
1117+146	1117+146	1085	11	20	27.80817844	+14	20	54.9796122	0.00056272	0.0055006	-0.4648	53192.9	53193.6	1	0.026	36
1119+183	1119+183	1086	11	22	29.71147908	+18	5	26.3434799	0.00000959	0.0001851	0.2793	52771.7	52772.6	1		57.3
1121+238	J1124+2336	1087	11	24	27.0588471	+23	36	45.8701938	0.00001595	0.00002327	-0.3342	52991.9	53286.4	6		40.8
1121+264	P 1123+26	299	11	25	53.71193273	+26	10	19.9784713	0.00000451	0.0000212	-0.3416	44200.8	53290.6	193	0.333	47.8
1124+186	P 1124+186	300	11	27	4.3924377	-58	18	53.4416728	0.00027821	0.0018359	-0.4724	53164.9	53165.7	1		38
1125+596	1125+596	842	11	28	13.34065348	+59	25	14.7983017	0.00000938	0.00000878	0.0786	49422.2	51393.6	3	0.812	41.7
1127+145	P 1127+14	301	11	30	7.05257618	-14	49	27.3883888	0.00000619	0.00001221	-0.3245	43808.7	53192.5	55	1.273	102.6
1128+385	GC 1128+38	302	11	30	53.28261169	+38	15	18.5469634	0.00000556	0.000009	-0.1417	44283.3	53311.7	596	0.999	41.5
1128-047	P 1128-047	303	11	31	30.51668997	-5	0	19.6599743	0.00002487	0.0009232	-0.1455	49099.2	53185.7	2		72.1
1129-580	1129-580	1088	11	31	43.28772799	-58	18	53.4416728	0.00027821	0.0018359	-0.4724	53164.9	53165.7	1		38
1130+009	P 1130+009	304	11	33	20.05576701	+0	40	52.8374593	0.00000638	0.0001469	-0.5474	44203.4	53178.5	32	0.229	79.3
1133+704	1133+704	1089	11	36	26.40812679	+70	9	27.3078815	0.00002042	0.0006423	-0.5419	53184.7	53185.7	1		87.5
1142+198	1142+198	1090	11	45	21.31508083	+4	55	22.7408337	0.00000801	0.0002619	0.1482	52775.2	53131.2	3	0.122	31.1
1142+052	1142+052	1091	11	45	21.31508083	+4	55	26.6877946	0.00000754	0.000754	0.47	52430.8	52431.7	1		60
1143-245	P 1143-245	306	11	46	8.10331351	-24	47	32.89063559	0.00000852	0.0002625	0.0317	50209.9	53191.8	5	0.156	45

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)		
		No.	H	M	S	H	M	S								
B1950	Common	699	11	46	58.29791623	+39	58	34.3044956	0.00000167	0.0000249	-0.117	45940.8	53178.6	128	0.628	37.5
1144+402	P1144-402	309	11	47	51.37069467	-38	12	11.0236307	0.0000017	0.0000309	0.0782	43808.7	53297.3	468	1.476	59.3
1144-379	P1144-379	843	11	47	22.1306329	+35	1	7.5225697	0.00005406	0.00003668	0.1021	50876	51184.5	2	106.4	106.4
1144+352	1144+352	689	11	47	51.55402492	-7	24	41.1411202	0.00000096	0.0000295	-0.1144	47379.8	53197.2	136	0.492	40.8
1145-071	1145-071	844	11	48	50.3582079	+59	24	56.3816495	0.00002548	0.00001998	-0.4317	50679.8	51787.2	5	66.7	66.7
1146+596	1146+596	845	11	50	19.1217245	+24	17	53.8352701	0.00000331	0.0000698	-0.3193	48702.0	53256.4	4	0.331	29.8
1147+245	B2 1147+24	312	11	50	43.87075265	-0	23	54.205263	0.00000434	0.0001368	-0.2176	43808.9	52809.7	23	0.249	45.1
1148-001	P1148-00	846	11	51	13.4265473	-67	28	11.094449	0.00006399	0.00004828	0.5935	49014.8	49015.6	1	46.4	46.4
1148-671	P1148-671	318	11	59	12.49925542	+80	58	29.1546238	0.00000769	0.0000173	0.0216	47282.8	53234.6	73	0.631	39.3
1150+812	1150+812	847	11	53	24.46664661	+49	31	8.829917	0.00000541	0.0000667	-0.1339	49252.9	53201.7	4	0.543	33.4
1150+497	4C 49-22	848	11	53	34.83623375	+16	38	59.6500153	0.00001223	0.0001811	0.254	52775.5	52779.7	2	65.8	65.8
1155+169	1155+169	1092	11	57	25.78753078	+24	50	17.963757	0.00001221	0.00002732	-0.0006	48975.7	53158.5	6	46	46
1155+251	GC 1155+25	849	11	58	12.71172243	-9	40	52.0494035	0.00001095	0.0001949	-0.6904	46797.6	53066	26	0.153	86.4
1156-094	P1156-094	319	11	59	31.83390763	+29	14	43.82681513	0.00000532	0.0000106	-0.1083	47305.1	53311.5	699	1.145	40.1
1156+295	GC 1156+29	850	12	7	12.62456964	+12	11	45.8469112	0.00002286	0.0003973	0.3983	51695.1	53220.4	4	0.097	76.6
1204+124	J1207+1211	1093	12	15	3.97910772	+16	54	37.9577315	0.00002338	0.00002386	-0.1031	51695.9	51695.9	1	0.326	46.9
1212+171	J1215+1654	326	12	15	46.75175747	-17	31	45.4032549	0.00000464	0.0001179	-0.0447	49867.9	53191.8	11	0.934	36.7
1213-172	P1213-17	851	12	15	55.60103411	+34	48	15.2205991	0.00000665	0.0001364	-0.162	48975.8	53220.6	8	0.337	50.2
1213+350	4C 35-28	328	12	17	52.0819707	+30	7	0.6553175	0.00001185	0.0002407	-0.487	50764.9	52480.5	2	0.283	34.9
1215+303	B2 1215+30	852	12	18	6.24487648	-46	0	28.9290462	0.00426472	0.033312	-0.9752	49329	49331	1	58.6	58.6
1215-457	1215-457	853	12	19	6.41473911	+48	29	56.1646435	0.00000497	0.0000489	0.0015	48378.1	53241.6	6	0.269	41.4
1216+487	1216+487	1094	12	19	20.58318778	+63	44	10.7175483	0.00005844	0.000464	0.2492	52939.8	52940.2	1	78.3	78.3
1216+061	1216+061	1095	12	19	23.21605826	+5	49	29.7015076	0.0000201	0.0003939	0.119	53067.9	53068.3	1	37.2	37.2
1217+713	1217+713	1096	12	20	3.62821445	+71	5	31.1335919	0.0000554	0.0003685	0.0063	52430.9	52431.7	1	0.109	62.8
1217+023	P1217+02	332	12	20	11.88458427	+2	3	42.2252181	0.00001958	0.0001965	0.0051	50440.6	53108.6	4	61.9	61.9
1219+285	ON 231	335	12	21	31.69051736	+28	13	58.4996649	0.00000363	0.0000701	-0.3231	44446.8	53038.1	41	0.218	43.1
1219+044	P1219+04	854	12	22	22.54961654	+4	13	15.7760933	0.00000559	0.0000162	0.0773	48378.1	53297.7	686	0.739	50.6
1221+809	1221+809	337	12	23	40.49382068	+80	40	4.3402741	0.00001369	0.0000354	-0.195	48975.8	53143.6	14	0.24	51.1
1222+037	P1222+037	855	12	24	52.42193962	+3	30	50.2924964	0.00000433	0.0000928	-0.903	44200.8	51664.4	86	0.451	75.2
1226-028	1226-028	856	12	28	36.9172935	-3	4	39.3113032	0.00001421	0.00004075	-0.0855	50653.9	53131.3	2	0.138	71.8
1226-373	1226-373	341	12	29	6.699738	+2	3	8.598216	0.0000013	0.0000366	-0.2313	43808.8	53201.7	525	57.5	57.5
1227+255	1227+255	1097	12	30	14.08937274	+25	18	7.1361602	0.00004297	0.000644	-0.4201	52430.9	52431.6	1	55.4	55.4
1228+126	3C 274	342	12	30	49.42337814	+12	23	28.043824	0.00000538	0.0000147	-0.074	44200.8	53307.4	586	0.298	38.8
1234-504	1234-504	857	12	37	50	-50	46	23.2273908	0.000340555	0.0131279	-0.8551	50049	50049	1	13.2	13.2
1236-077	P1236+077	344	12	39	24.5883225	+7	30	17.1891941	0.0000606	0.0002178	-0.1255	48378.3	53080.4	13	0.619	70.7
1237-101	P1237-10	345	12	39	43.06148967	-10	23	28.6927267	0.00000287	0.0000836	-0.1932	49960	53164.6	21	0.376	42.5
1236-684	P1236-684	858	12	39	46.65141319	-68	45	30.8875759	0.000074171	0.010145	-0.9335	50181.7	50181.9	1	69.3	69.3
1237-113	M104	346	12	39	59.4318392	-11	37	22.9954093	0.00004123	0.0019057	-0.8251	50002.7	53068.4	7	71	71
1239+606	1239+606	859	12	41	29.59053325	+60	20	41.3226555	0.00004837	0.0003231	-0.4851	51283.8	53171.7	3	42	42
1239+376	1239+376	860	12	42	9.81237422	+37	20	5.6928506	0.00000791	0.0001536	-0.0731	50245.8	52990.9	8	47.9	47.9
1240+381	1240+381	861	12	42	51.36905366	+37	51	0.0251977	0.00000337	0.0000562	-0.1884	49750.4	53297.6	7	0.346	38.9
1243-072	1243-072	690	12	46	4.23210632	-7	30	46.574693	0.00000288	0.00000707	-0.3654	47253.5	53197.2	47	0.342	47.1
1244-255	P1244-255	350	12	46	46.80202696	-25	47	49.2889537	0.0000639	0.0001519	0.42007	53227.7	109	0.789	43.9	43.9
1252+458	J1254+4536	1098	12	54	28.8286727	+45	36	4.3296213	0.00005531	0.0012536	-0.152	52431	52431.7	1	0.04	57.3
1252+119	P1252+119	351	12	54	38.2556149	+11	41	5.8950832	0.00000453	0.0000817	-0.1895	48553.1	53178.6	36	0.4	57.1

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)
		No.	H	M	S	H	M	S						
B1950	Common													
1251-713	P 1251-71	862	12	54	59.92139899	-71	38	18.4367016	0.00002659	0.0001408	0.2382	48387.6	52388	7
1253+185	J1253+1817	1099	12	55	31.75995962	+18	17	50.9085095	0.00003669	0.0010669	0.3131	52430.9	52430.9	1
1253-055	3C 279	352	12	56	11.16655553	-5	47	21.5247389	0.00001777	0.00000489	-0.2021	43808.9	53197.2	179
1254+571	1254+571	863	12	56	14.23865065	+56	52	25.2377213	0.00002802	0.00003764	-0.1751	51245.7	51245.7	1
1255-316	1255-316	864	12	57	59.06081363	-31	55	16.8518514	0.00000235	0.00000425	0.1125	49750.2	53300.7	285
1257+145	P 1257+145	356	13	0	20.91888649	+14	17	18.531475	0.00001805	0.0000262	0.0682	48811.9	53165.5	12
1300+580	1300+580	865	13	2	52.46527501	+57	48	37.6092641	0.00000108	0.0000097	-0.2195	49422.2	53311.7	377
1302-102	P 1302-102	359	13	5	33.01503273	-10	33	19.4282513	0.00000299	0.0000073	-0.4133	47379.8	53235.7	84
1307+121	1307+121	866	13	9	33.93243815	+11	54	24.5532056	0.00000247	0.0000504	0.1001	49099.2	53307.6	73
1307+010	1307+010	1100	13	10	28.50441612	+0	44	8.8847416	0.00012728	0.0006736	0.7174	52430.8	52431.7	1
1308+326	B2 1308+32	361	13	10	28.66385031	+32	20	43.7828612	0.00000449	0.0000106	-0.1494	44200.9	53311.7	1018
1308+328	1308+328	867	13	10	59.40271153	+32	33	34.4493335	0.00000444	0.0000977	-0.1855	52479.9	53262.5	3
1313-333	OP-322	363	13	16	59.8594361	-33	38	59.1727344	0.00000183	0.0000427	-0.1552	43808.8	53197.2	301
1315+346	OP 326	364	13	17	36.49418322	+34	25	15.9326259	0.0000425	0.0000825	-0.1717	47946.2	53227.6	37
1318+225	1318+225	1101	13	21	11.20254652	+22	16	12.1084679	0.00000749	0.0001493	-0.0814	52978.8	53293.7	24
1320-446	P 1320-446	868	13	23	4.24629796	-44	52	33.8402724	0.00157533	0.0145206	-0.8511	49329	50259.1	2
1322-427	P 1322-42	869	13	25	27.615163886	-43	1	8.8069993	0.00005113	0.00007891	0.4269	50906.2	51927.8	3
1323+321	1323+321	870	13	26	16.511164671	+31	54	9.5182995	0.00026034	0.0019784	-0.0563	48975.8	49177.8	2
1324+224	1324+224	704	13	27	0.86131182	+22	10	50.1628068	0.00000168	0.00004	-0.2999	48428.4	53197.2	88
1325-558	1325-558	1102	13	29	1.14437974	-56	8	2.6690119	0.0006639	0.0027114	0.2224	53164.8	53165.5	1
1328+307	3C 286	370	13	31	8.28808839	+30	30	32.9591594	0.0000179	0.0002506	0.2296	49253.8	53185.6	5
1329+063	1329+063	1103	13	31	53.89714739	+6	8	23.3927483	0.00004222	0.0017234	-0.0835	52940.5	52940.6	1
1330+476	1330+476	871	13	32	45.24641528	+47	22	22.6677224	0.00000303	0.0000409	-0.0294	50749.8	53068.7	5
1331+170	1331+170	1104	13	33	35.78261113	+16	49	4.0146608	0.00001177	0.0002192	0.2715	52778.7	52778.7	1
1334-127	DW 1335-12	376	13	37	39.78277199	-12	57	24.6934175	0.0000061	0.0000183	0.3139	43816.8	53283.5	1327
1338-381	1338-381	872	13	40	22.95179535	+37	54	43.8337573	0.00000813	0.0001698	-0.2088	48949.5	52991.5	29
1342+662	GC 1342+662	691	13	43	45.95957792	+66	2	25.7452057	0.00000629	0.0000414	0.0783	45301.1	53276.6	30
1342+663	GC 1342+663	382	13	44	8.67970042	+66	6	11.6437951	0.00000406	0.0000275	-0.0284	44263.7	53262.6	77
1345+125	P 1345+12	383	13	47	33.36160473	+12	17	24.2418463	0.00001192	0.0005184	-0.0284	48975.7	53193.6	4
1347+539	1347+539	873	13	49	34.65662665	+53	41	17.040764	0.00000604	0.0000678	0.0504	48720.2	52291.3	6
1349-439	P 1349-439	387	13	52	56.53492959	-44	12	40.3877907	0.00001902	0.0001479	-0.7402	44265.5	53165.6	45
1351-018	P 1351-018	388	13	54	6.89531818	-2	6	3.1904435	0.0000093	0.0000307	0.0906	48572.8	53276.7	516
1352-104	P 1352-104	389	13	54	46.51867619	-10	41	2.6561612	0.00000505	0.0001599	-0.2154	50456.4	53191.9	15
1354+195	P 1354+195	392	13	57	4.43665025	+19	19	7.3723738	0.00000233	0.0000464	-0.4661	44200.9	53269.7	181
1354-174	P 1354-174	390	13	57	6.07418437	-17	44	1.9039177	0.00002198	0.0002198	-0.1278	50456.4	53165.6	15
1354-152	OP-192	391	13	57	11.24496864	-15	27	28.7869644	0.0000357	0.0000689	-0.5984	47253.4	53248.7	144
1357+769	1357+769	874	13	57	55.37153972	+76	43	21.2059739	0.00000249	0.0000087	-0.3699	49341.7	53311.7	679
1355-416	P 1355-416	394	13	59	0.1897574	-41	52	52.6970593	0.00069208	0.0589226	-0.9601	50181.7	50181.9	1
1402-012	P 1402-012	397	14	4	45.89544136	-1	30	21.9470451	0.00000573	0.0001561	0.097	48664.4	53165.5	6
1402-044	P 1402-044	398	14	5	1.11979698	+4	15	35.8191338	0.00000437	0.0001148	-0.1798	48887.8	53234.7	29
1404+286	OQ 208	400	14	7	0.394413	+28	27	14.690235	0.00000556	0.0000143	-0.0856	44341.1	53311.7	939
1406+564	1406+564	1105	14	8	12.94630574	+56	13	32.4838661	0.00004674	0.0005168	0.186	52939.8	52940.5	1
1406-076	P 1406-076	402	14	8	56.48118423	-7	52	26.6663595	0.0000656	0.0000656	-0.4312	47379.9	53197.3	61
1409+218	1409+218	875	14	11	54.86221539	+21	34	23.4377008	0.00000394	0.0001083	-0.1457	50849.4	53131.5	3
1412-368	1412-368	1106	14	15	25.99604375	-37	5	27.0211558	0.01350195	0.033631	0.9891	53191.7	53191.7	1
1413+135	P 1413+135	404	14	15	58.81750729	+13	20	23.7128883	0.00000274	0.0000638	-0.1941	48553.2	53276.7	40

Names	ID	Right Ascension			Declination			RA Error (arc sec)	DEC Error (arc sec)	RA-DEC	Obs Epochs	No. Obs	Corr Flux Density (Jy)		
		No.	H	M	S	H	M	S							
B1950	Common	405	14	16	4.1862503	+34	44	36.4274653	0.00001934	0.1186	51686.6	1	0.058		
1413+349	OQ 323	876	14	19	8.1802011	+6	28	34.802768	0.00001808	-0.0187	49176.9	3	0.075		
1416+067	1416+067	408	14	19	46.59740155	+54	23	14.7810999	0.00001129	-0.1842	44282.8	53311.5	417	0.449	
1418+546	GC 1418+54	877	14	19	46.61375817	+38	21	48.4750456	0.00000198	-0.01313	49750.4	53311.4	72	0.112	
1417+385	1417+385	878	14	19	59.29708203	+27	6	25.5528908	0.00000477	-0.01283	50559.8	53201.2	3	32.3	
1417+273	1417+273	1107	14	21	23.0730509	+46	45	47.9850128	0.00007375	0.010436	-0.7438	52431.1	1	52.4	
1419+469	1419+469	879	14	22	30.37896143	+32	23	10.4398708	0.00000558	0.0001075	-0.3912	50209.9	53136.6	4	29.3
1420+326	1420+326	1108	14	24	9.50088114	+4	34	52.0887056	0.00008064	0.0061685	-0.1801	52940.6	1	77.8	
1421+048	1421+048	1109	14	25	49.01802013	+14	24	56.9019213	0.00000826	0.000154	0.0057	53171.6	6	71.3	
1423+146	1423+146	880	14	26	37.08748892	+36	25	9.573661	0.00001448	0.0001272	-0.0474	50868.4	4	0.194	
1424+366	1424+366	881	14	27	0.39178766	+23	48	0.0374638	0.00000686	0.000163	-0.0011	51938.9	52809	2	0.124
1424+240	1424+240	409	14	27	56.29755968	-42	6	19.43785	0.00000239	0.0000448	0.1793	47305.3	53283.5	279	0.784
1424-418	P 1424-41	882	14	29	21.87878499	+54	6	11.1226803	0.00001525	0.0001448	-0.3208	50735.8	51471.5	5	88.9
1427+543	1427+543	883	14	30	23.74161714	+42	4	36.4912426	0.0000071	0.0001602	0.2332	50763.8	52900.5	11	49.6
1428+422	1428+422	412	14	32	57.69061604	-18	1	35.2488117	0.00001079	0.0001652	-0.8605	44227.7	53197.3	41	0.217
1430-178	OQ-151	884	14	34	39.79335184	+19	52	0.7358389	0.00000394	0.0000987	0.0159	51574.8	52403.3	2	37.8
1432+200	1432+200	885	14	35	35.402166	+30	12	24.5190013	0.00001935	0.0002457	0.3306	50002.9	52809	4	53.1
1433+304	1433+304	1110	14	36	40.98108841	+23	21	3.2602653	0.00000822	0.0001751	0.0977	52978	52983.3	2	0.174
1434+235	P 1434+235	886	14	36	45.80218299	+63	36	37.8661717	0.00000735	0.0000519	-0.0004	50849.2	53256.3	4	0.446
1435+638	1435+638	887	14	38	9.469404	-22	4	54.7483637	0.0000074	0.0001092	-0.6065	48161.8	53136.7	37	0.347
1435-218	P 1435-218	420	14	45	16.4652576	+9	58	36.0729379	0.00000421	0.0000952	0.1388	48572.8	53068.7	20	42
1442+101	OQ 172	692	14	45	53.37626363	-16	29	1.6187262	0.00000649	0.0001194	-0.6764	47379.9	53165.5	28	0.288
1443-162	1443-162	1111	14	46	3.34629075	+17	21	7.5816492	0.00000601	0.0001834	-0.0801	52746.4	52751.7	2	0.65
1444+175	1444+175	421	14	48	15.05413765	-16	20	24.54897	0.00000627	0.0001114	-0.7614	47379.9	53197.3	45	0.183
1445-161	P 1445-161	888	14	48	28.77905217	+76	1	11.5971934	0.00000489	0.0000174	-0.0662	51078.8	53068.7	25	35.9
1448+762	1448+762	423	14	54	27.40975705	-37	47	33.1449337	0.00000255	0.00006671	0.0856	48387.7	53290.4	153	53.9
1451-375	P 1451-375	889	14	54	32.91236204	-40	12	32.5142711	0.00000656	0.0001681	0.1735	49330.2	53297.4	34	0.282
1451-400	1451-400	1112	14	58	59.35623549	-44	16	13.8198878	0.00004044	0.00009887	0.1327	52940.3	52940.6	1	0.534
1456+044	1456+044	426	14	59	7.58394008	+71	40	19.8663739	0.0000059	0.0000326	-0.1265	49268	53122.6	10	0.276
1458+718	3C 309.1	890	15	0	48.65422492	+47	51	15.5381422	0.00000371	0.0000451	0.0071	49252.9	52900.7	6	51.2
1459+480	1459+480	428	15	4	24.97977832	+10	29	39.1985271	0.00000104	0.000289	-0.1655	43809	53297.6	433	0.925
1502+106	OR 103	429	15	5	6.47715221	+3	26	30.8126537	0.00000295	0.0000981	-0.1798	50323.9	53059.7	6	0.405
1502+036	P 1502+036	891	15	6	9.52996185	+37	30	51.1325202	0.00000367	0.0000625	-0.0635	47940.7	53276.7	25	0.187
1504+377	1504+377	431	15	7	7.8695148	-16	52	0.2672982	0.00000264	0.000056	-0.4769	51154	53197.2	122	0.555
1504-166	P 1504-166	1113	15	8	38.94447341	-49	53	2.3113035	0.00003177	0.0018197	-0.459	53165.6	1	51.3	
1508-572	1508-572	892	15	10	2.92235708	+57	2	43.3759682	0.00000466	0.0000447	-0.0565	49751.7	51731.7	36	0.186
1508-055	1508-055	893	15	10	53.59142254	-5	43	7.4173926	0.00000302	0.00001008	-0.0644	51309.1	53241.6	4	0.441
1510-089	P 1510-089	433	15	12	50.53292617	-9	5	59.8298306	0.00000171	0.0000416	-0.314	43808.9	53197.3	311	0.08
1511-100	P 1511-100	434	15	13	44.89341333	-10	12	0.2646827	0.00000355	0.0000848	-0.4706	47254.5	53050.6	36	0.295
1511-476	1511-476	1114	15	14	40.02470074	-47	48	29.8554239	0.000007342	0.0011647	0.7066	53191.8	53192	1	20.2
1514+197	GC 1514+19	437	15	16	56.79617282	+19	32	12.9920415	0.00000308	0.0000953	-0.2151	50324.6	52711.7	5	0.321
1514-241	P 1514-241	438	15	17	41.81312834	-24	22	19.4761636	0.00000115	0.0000364	-0.0724	47254.5	53197.3	269	0.441
1518+045	1518+045	1115	15	21	22.54361262	+4	20	30.1357886	0.00004018	0.00007386	0.0832	52430.9	52431.7	1	0.063
1519-273	P 1519-273	440	15	22	37.6759883	-27	30	10.7857395	0.00000167	0.0000302	-0.1812	52420.9	53297.7	325	0.336
1522+155	1522+155	1116	15	24	41.61147911	+15	21	21.0509093	0.00000612	0.0000187	-0.1812	52740.3	53307.6	45	0.682
1526+670	J1526+6650	1117	15	26	42.87413681	+66	50	54.6412625	0.00004572	0.0000304	0.3417	51696	51696.8	1	0.185
														78.1	

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)		
		No.	H	M	S	H	M	S								
B1950	Common	442	15	34	52.45367766	+1	31	4.2065065	0.00000494	0.0001111	-0.4033	47253.5	53290.4	32	0.264	48.3
1532+016	P1532+01	1118	15	36	13.84618364	+38	33	28.6039279	0.0001266	0.0041786	0.823	52939.9	52940.3	1		28.2
1534+387	1534+387	1119	15	39	39.13712563	+27	44	38.2103668	0.00003558	0.0004807	-0.1684	52431.5	1			56.4
1538+149	GC 1538+149	444	15	40	49.49150479	+14	47	45.8848968	0.00000233	0.0005158	-0.2731	48102.9	53213.6	44	0.606	31.3
1541+189	1541+189	1120	15	43	43.80463763	+18	47	19.7750404	0.00007155	0.0037767	-0.1447	52940.1	52940.3	1		117.7
1547+507	1547+507	894	15	49	17.46854378	+50	38	5.78807094	0.00000503	0.0005056	-0.0113	50849.3	53290.7	4	0.544	37
1546+027	P1546+027	446	15	49	29.43684191	+2	37	1.1634097	0.00000177	0.000051	-0.2883	48253.3	53262.7	64	1.162	34.7
1548+056	DW 1548+056	448	15	50	35.26924568	+5	27	10.4483099	0.00000136	0.0000336	-0.0859	45888.3	53197.4	232	0.924	62.3
1540-828	P1540-828	895	15	50	59.14306554	-82	58	6.8545394	0.000382569	0.0130252	-0.3019	49329.4	49329.4	1		67
1549-790	P1549-790	896	15	56	58.86990651	-79	14	4.2814574	0.00004016	0.000117	0.2111	48387.7	50182.2	6		80.9
1555+001	DW 1555+001	452	15	57	51.43396752	-0	1	50.4138383	0.0000019	0.0000434	-0.4496	43808.9	53197.4	269	0.615	54.1
1555-140	P1555-140	453	15	58	21.94808272	-14	9	59.0517986	0.00002513	0.0004323	-0.6778	45474.5	51168.7	11	0.027	40.3
1557+032	1557+032	897	15	59	30.97259211	+3	4	48.2658766	0.00000519	0.0001731	-0.0671	49736.4	53158.4	19		55.1
1600+43A	1600+43A	898	16	1	40.443902	+43	16	47.7563703	0.0001239	0.0031124	0.6075	50560.3	50560.3	1		178.2
1600+43B	1600+43B	899	16	1	40.51534459	+43	16	46.4766183	0.001966552	0.0246881	0.9933	50560.3	50560.3	1	0	0
1600+33.5	B2 1600+33	455	16	2	7.26345638	+33	26	53.0723636	0.00000253	0.00000479	-0.0847	48102.9	53080.4	26	0.147	37.1
1604-33.3	P1604-33.3	457	16	7	34.76233799	-33	31	8.9135595	0.00001351	0.0001452	-0.8544	48393.3	53197.2	41	0.246	79.3
1606+106	P1606+106	458	16	8	46.20318451	+10	29	7.7757174	0.00000447	0.0000167	0.2651	48102.9	53311.7	962	0.796	43.4
1607+268	CTD 93	459	16	9	13.32075514	+26	41	29.0359828	0.00002812	0.0005079	0.52	44090.9	53178.6	5	0.065	103.3
1606-398	1606-398	1121	16	10	21.87889445	-39	58	58.3288755	0.00020471	0.0012995	-0.6942	53164.8	53165.7	1	0.105	42.2
1608+243	J1610+2414	1122	16	10	42.02678522	+24	14	49.0122324	0.00003197	0.0005473	0.2854	52985.3	52989.7	2		69.3
1611+343	DA 406	460	16	13	41.06424265	+34	12	47.9089715	0.0000055	0.0000139	0.1065	43809.1	53311.7	920	1.822	39.9
1614+051	P1614+051	461	16	16	37.55681476	+4	59	32.7362467	0.00000252	0.000061	-0.4784	46659.3	53197.4	146	0.32	65.1
1616-771	P1616-771	900	16	17	49.27643681	-77	17	16.4676958	0.00000934	0.0000336	0.0864	47973	53297.6	173		85.1
1616+063	DW 1616+063	464	16	19	3.6876768	+6	13	2.2430714	0.00000352	0.0001205	-0.265	50323.9	53283.7	6		35
1617+229	1617+229	1123	16	19	14.82459782	+22	47	47.8511516	0.00000957	0.0001373	0.0005	52963.9	52968.4	2		43.1
1619-680	P1619-680	901	16	24	18.43721973	-68	9	12.4991392	0.00004212	0.000377	-0.0702	49014.7	50259.1	3		120.9
1623+578	1623+578	1124	16	24	24.80753732	+57	41	16.2806253	0.00003027	0.0002996	-0.0252	52939.7	52940.6	1	0.276	55.2
1622-253	P1622-253	465	16	25	46.889164051	-25	27	38.3270644	0.00000389	0.0000262	0.1778	47737	53306.9	1071	1.113	55.6
1624+416	1624+416	902	16	25	57.66971176	+41	34	40.6292842	0.00000336	0.0000448	-0.0867	47940.8	53068.7	45	0.141	38.6
1622-297	P1622-297	466	16	26	6.02083652	-29	51	26.9713518	0.00000486	0.0000704	-0.5451	47254.6	53235.7	67	1.095	49.5
1623-243	1623-243	1125	16	27	0.00547926	-24	26	40.4688275	0.00073099	0.0150576	0.8832	52431	52940.6	2		70
1624-617	1624-617	1126	16	28	54.68934795	-61	52	36.4001259	0.00045297	0.0025333	-0.3272	53164.8	53165.6	1		32.6
1637+826	1637+826	903	16	32	1.96988392	+82	32	16.399839	0.00001663	0.0000291	-0.1569	50819.8	53256.6	57	0.179	46.6
1634+213	J1636+2112	1127	16	36	38.18347793	+21	12	55.5949925	0.00002798	0.0002774	0.003	52992	53020.2	3	0.089	63.7
1636+473	1636+473	904	16	37	45.13057158	+47	17	33.8311506	0.00001336	0.00001704	-0.1419	51268.2	51499.7	3	0.332	57.8
1637+574	P1637+574	905	16	38	13.45629122	+57	20	23.9789363	0.00000246	0.00000277	0.0996	45137	53269.3	152	0.979	45.2
1638+398	RAO 512	472	16	40	29.63276947	+39	46	46.0284339	0.00000662	0.00000137	0.1283	43873.9	53311.6	662	0.45	47
1639+230	1639+230	906	16	41	25.22756319	+22	57	4.0324595	0.00000775	0.0001438	-0.014	51568.8	52403.6	5		40.2
1642+690	1642+690	907	16	42	7.84850512	+68	56	39.7563838	0.0000185	0.0000141	-0.019	44089.1	53068.6	147	0.717	35.6
1641+399	3C 345	473	16	42	58.80997114	+39	48	36.9939248	0.00000107	0.0000204	-0.0765	44088.9	53185.7	494	1.633	48.5
1641+074	1641+074	1128	16	44	16.32977138	+7	20	33.755943	0.00005261	0.0008464	-0.3063	52430.9	52431.4	1		71.7
1642+183	1642+183	1129	16	44	52.43248196	+18	13	17.2390995	0.00004542	0.001732	0.5759	52431	1		44.2	
1645+224	J1648+2224	1130	16	48	1.5355175	+22	24	33.1477415	0.00001836	0.0003315	0.1129	52975.3	2		109.1	
1646+042	1646+042	1131	16	49	27.67942856	+4	12	3.9932157	0.00003705	0.00024039	-0.0339	52431.1	52431.4	1		47.5

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)		
		No.	H	M	S	H	M	S								
B1950	Common	477	16	50	39.5441445	-29	43	46.9551421	0.00001544	0.0001671	-0.8754	48345.6	53165.7	34	0.347	51.8
1647-296	P 1647-296	1132	16	53	29.91074111	+31	7	56.8696231	0.00006846	0.0000738	-0.34	52430.9	52430.9	1		42.5
1651+312	1651+312	479	16	53	52.21668394	+39	45	36.6088685	0.0000175	0.0000278	-0.0729	48196.2	53311.5	221	0.423	57.4
1652+398	DA 426	908	16	58	14.1918508	+34	43	28.4027155	0.00001105	0.0001593	0.1948	49254	52291.6	3		47.7
1656+347	1656+347	909	16	58	2.77958482	+47	37	49.2308662	0.00000474	0.0000562	-0.1075	50849.4	53311.5	5	0.439	40.6
1656+477	1656+477	480	16	58	9.01145795	+7	41	27.5405911	0.00000405	0.00000742	-0.6364	46338.2	53197.4	50	0.6	48.7
1655+077	OS 092	481	16	58	33.4473289	+5	15	16.4439837	0.00000313	0.0000074	-0.4708	44200.9	53269.6	44	0.391	34.8
1656+053	DW 1656+05	1133	16	59	24.14945549	+26	29	36.9444408	0.00003251	0.0000634	0.1588	52431.1	52431.1	1	0.226	39.4
1657+265	B2 1657+26	484	17	0	53.15406429	-26	10	51.725562	0.00000236	0.0000587	-0.4077	45556.7	53197.4	108	0.42	47.8
1657-261	P 1657-261	910	17	7	17.75342567	+45	36	10.5592929	0.00000562	0.0000706	-0.1068	49268	53311.7	8		37.8
1705+456	1705+456	485	17	7	34.41526476	+1	48	45.6994742	0.0000025	0.0000088	-0.3188	49271.7	53131.7	25	0.401	33.4
1705+018	P 1705+018	1134	17	7	45.63727532	+13	31	52.2330936	0.00000861	0.0000241	-0.1173	53184.8	53212.9	4		48.4
1705+135	1705+135	486	17	9	34.34538915	-17	28	53.3650608	0.00000404	0.0000749	-0.6555	45356.7	53307.7	148	0.279	55.8
1706-174	OT-111	489	17	19	13.04848399	+17	45	6.4372867	0.00000257	0.0000718	-0.2129	44203.6	53197.4	26	0.434	32.8
1717+178	GC 1717+17	911	17	23	41.0297477	-65	0	36.6125701	0.00005122	0.00005887	0.2725	48387.8	53290.7	4		220.5
1718-649	P 1718-649	912	17	27	27.65080155	+45	30	39.7313028	0.00000081	0.0000139	0.1823	48720.4	53311.5	679	0.904	51
1726+455	1726+455	913	17	28	7.05121662	+12	15	39.4845601	0.00001436	0.000052	-0.2913	51695.8	53171.2	4	0.283	71.4
1725+123	J1728+1215	914	17	28	18.62394796	+50	13	10.4695527	0.00003998	0.00002514	-0.187	49176.9	52620.5	3	0.049	52.1
1727+502	P 1727+502	493	17	28	24.95274229	+4	27	4.913628	0.00000531	0.0000909	-0.077	49177	53234.5	8	0.317	50
1725+044	P 1725+044	495	17	33	2.70578823	-13	4	49.5483253	0.00000144	0.0000355	-0.1855	43809	53197.4	366	1.436	47.2
1730-130	NRAO 530	700	17	34	20.57854254	+38	57	51.4430493	0.00000214	0.00000424	-0.0669	48196.2	53297.7	83	0.531	25.6
1732+389	1732+389	915	17	35	48.08661643	+36	16	45.6114032	0.00000622	0.0000837	0.2205	51350.8	53066.4	4	0.526	48.2
1734+363	1734+363	916	17	35	49.005154	+50	49	11.5633264	0.00004534	0.00009373	0.6039	50015	51074.2	2	0.292	59.3
1734+508	1734+508	917	17	37	35.7079889	-56	34	3.1526004	0.00030835	0.00016769	0.8382	48388	50259.2	4		135
1733-565	1733-565	918	17	38	40.50179417	+32	24	9.0230431	0.00003154	0.0000804	0.1982	51696.1	51696.8	1		98.9
1736-324	J1738+3224	1135	17	39	27.39049477	+49	55	3.3682529	0.00000489	0.0000631	-0.0482	49322.4	53201.7	5	0.138	43.3
1738+499	1738+499	919	17	39	57.12907282	+47	37	58.3613085	0.00000355	0.0000497	0.0527	43809.2	53234.7	62	0.409	43.8
1739+522	4C 51.37	921	17	40	36.97784514	+52	11	43.4073768	0.00000081	0.0000126	0.2241	47283.3	53311.7	900	0.807	47.2
1741-038	P 1741-038	500	17	43	58.856135	-3	50	4.616829	0.00000449	0.00000197	0.2992	43809	53307.7	1521	1.912	44.3
1744+557	1744+557	1136	17	44	56.60710351	+55	42	17.1609852	0.0000149	0.00001176	0.4759	52990.8	52991.7	1		33.1
1742+228	1742+228	1137	17	45	4.66388737	+22	52	48.0784426	0.00002976	0.0010454	-0.0626	52431.1	52431.4	1		69.3
1743+173	GC 1743+17	501	17	45	35.20816424	+17	20	1.4238147	0.00000212	0.0000565	-0.3005	48103	53290.7	64	0.25	38.7
1745+624	1745+624	920	17	46	14.03412504	+62	26	54.7382812	0.0000141	0.0000138	0.1597	48915.8	53311.6	497	0.24	39.7
1746+470	1746+470	921	17	47	26.6472929	+46	58	50.9264177	0.00000692	0.00000817	0.0663	49422.4	53283.6	9	0.188	55.7
1749+701	1749+701	502	17	48	32.84030426	+70	5	50.7687393	0.00000543	0.00001543	-0.0527	44202.8	53101.7	27	0.327	49.4
1749+096	OT 081	503	17	51	32.81857175	+9	39	0.7283625	0.00000575	0.00001016	0.3997	44446.1	53307.6	1203	2.057	40.5
1748-253	1748-253	922	17	51	51.25833935	-25	24	0.0123431	0.03159413	0.042911	-0.9992	50065.7	50065.7	1	0.026	0
1751+441	1751+441	923	17	53	22.64789732	+44	9	45.6861817	0.00000635	0.00000997	-0.1923	50849.4	53276.6	4		32.5
1751+288	GC 1751+288	504	17	53	42.47363441	+28	48	4.9388225	0.00000333	0.0000558	-0.1961	48103.2	53311.7	30	0.561	32.3
1753+204	1753+204	1138	17	55	35.52087395	+20	23	57.1338742	0.00003255	0.0014893	-0.2321	52431.5	52431.5	1		78.9
1753+049	1753+049	1139	17	55	51.15088463	+4	54	52.5946866	0.0005503	0.0096167	-0.9221	52940.5	52940.5	1		47.1
1754+159	1754+159	1140	17	56	33.72560618	+15	53	43.8334093	0.00001016	0.0004622	-0.0477	53184.7	53185.6	1		53.1
1754+155	1754+155	1141	17	56	53.10215189	+15	35	20.8263818	0.00001033	0.0001454	0.2366	52759	52765.5	2		60.4
1756+237	P 1756+237	1142	17	59	43	46.9539429	0.00001724	0.0002753	-0.0601	52989.7	52989.7	2	0.141	48.8		
1758+388	1758+388	924	18	0	24.76537028	+38	48	40.6974623	0.00000577	0.0214	49749.8	53094.6	19	0.951	50.3	
1803+784	1803+784	693	18	0	45.68389737	+78	28	4.0183654	0.00000242	0.0000108	0.1742	45459.6	53311.6	1341	1.28	40.6

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)		
		No.	H	M	S	H	M	S								
B1950	Common	925	18	1	32.3148091	+44	4	21.9002457	0.0000036	-0.0469	50849.4	4	0.559	38.3		
1800+440	1800+440	926	18	3	23.4969542	-65	7	36.7617809	0.00017464	-0.2285	50324.7	1	1.5			
1758-651	P 1758-651	512	18	6	50.68063435	+69	49	28.1084802	0.0000019	0.0001029	44202.8	53311.7	463	0.517	48.4	
1807+698	3C 371	927	18	8	21.8886724	+45	42	20.8663119	0.00000504	-0.0829	49422.5	52212.1	11	0.253	56	
1806+456	1806+456	927	18	9	11.97857626	+27	58	11.8013906	0.00003502	0.0017283	-0.4668	51696.1	1	40.2		
1807+276	J1809+2758	1143	18	9	57.87192661	-45	52	41.0152779	0.00008709	0.0005501	-0.7486	52067.3	53191.9	4	28.3	
1806-458	P 1806-458	509	18	9	35.0024524	-63	45	48.1951557	0.00014901	0.0031125	-0.6281	49329.2	53108.4	2	142.8	
1814-637	P 1814-63	928	18	19	45.39953792	-55	21	20.7455894	0.00001144	0.0000678	0.2852	48070.8	53297.6	151	75.3	
1815-553	P 1815-554	929	18	19	45.39953792	-55	21	20.7455894	0.00001144	0.0000678	0.2852	48070.8	53297.6	151	75.3	
1817-254	1817-254	664	18	20	57.84869975	-25	28	12.5852973	0.00001619	0.0000199	-0.055	47407.2	50906.3	5	0.227	51.1
1819+159	1819+159	1144	18	22	9.96898726	+16	0	14.8454479	0.00003124	0.00007442	0.1674	52431.5	1	59.6		
1826+796	1826+796	930	18	23	14.10855969	+79	38	49.0018798	0.00002477	0.0000675	0.3562	48353.1	52767.7	16	0.208	56.1
1821+107	P 1821+10	513	18	24	50.5252057	+10	44	23.7740777	0.00000334	0.00000733	-0.5408	44202.8	53197.4	62	0.31	37.4
1823+568	1823+568	931	18	24	7.06837478	+56	51	1.4907933	0.00000196	0.0000209	0.1144	47620.3	53262.3	157	0.745	48.8
1822+012	1822+012	1145	18	24	48.14557939	+1	19	34.20083737	0.00020106	0.002669	0.8348	52940.7	1	0.566	28.6	
1829-106	1829-106	663	18	32	20.61386158	-10	35	15.91208321	0.30431834	6.6247931	0.9998	51732.1	1	0	0	
1830+139	1830+139	1146	18	32	43.4711076	+13	57	44.4015753	0.00001481	0.00005363	-0.1264	53192.7	53193.7	1	0.245	93.4
1830+285	GC 1830+28	516	18	32	50.18562524	+28	33	35.9553399	0.00000476	0.0000968	-0.2481	50700.8	53269.7	5	32.3	
1830-211	1830-211B	932	18	33	39.88417883	-21	3	40.58589114	0.00003438	0.0090494	0.1225	49177.4	1	151.3		
1829-718	P 1829-718	933	18	35	37.2079982	-71	49	58.2126954	0.01150001	0.0676875	0.1242	50259.1	1	29.8		
1831-711	P 1831-711	934	18	37	28.7149651	-71	8	43.5550181	0.00002204	0.0001461	0.0296	47973	52388.5	6	55.9	
1839+389	1839+389	1147	18	40	57.15421827	+39	0	45.723992	0.00002351	0.00004353	-0.0302	52939.7	52940.6	1	76.4	
1845-797	3C 390.3	519	18	42	8.98991802	+79	46	17.1281706	0.00002839	0.00000712	-0.4219	44202.9	52291.6	19	0.167	46.4
1842+681	1842+681	935	18	42	33.64168592	+68	9	25.2276889	0.00000473	0.0000284	-0.1076	49422	52900.2	6	0.962	34.2
1843+400	1843+400	1148	18	45	11.13141585	+40	7	51.5782482	0.00003539	0.00002871	0.5609	53067.8	53068.5	1	39.8	
1843+205	1843+205	1149	18	46	4.34928495	+20	36	10.3512431	0.00005406	0.00152988	0.1454	52940.4	52940.6	1	130.6	
1844+081	J1847+0810	1150	18	47	12.66071586	+8	10	35.3852449	0.000010387	0.0054955	-0.73336	51696.4	51696.4	1	67.1	
1849+670	1849+670	697	18	49	16.07227851	+67	5	41.6802642	0.00000283	0.0000193	0.0888	50721.8	53171.6	114	0.777	38.3
1851+488	J1852+4855	1151	18	52	28.54789048	+48	55	47.4813926	0.00003572	0.00003343	0.0641	51696.5	51696.5	1	58.4	
1856+737	1856+736	936	18	54	57.29989736	+73	51	19.90698	0.00001412	0.0000623	0.0299	49268.1	53290.7	7	0.337	41.3
1901+319	3C 395	521	19	2	55.93887517	+31	59	41.7019099	0.00000272	0.0000045	-0.1858	48103.1	53256.7	32	51.6	
1901+155	1901+155	1152	19	4	14.36113211	+15	36	38.4525213	0.00001354	0.00004871	-0.035	52768.3	53286.2	13	35.7	
1904+013	1904+013	1153	19	7	11.99706192	+1	27	8.9370776	0.00057646	0.0111352	-0.9371	52940.4	52940.5	1	80	
1908-201	OV-213	522	19	11	9.65289516	-20	6	55.1092381	0.00000387	0.0000298	-0.0681	45356.9	53292.9	528	0.692	37.2
1909+161	J1911+1611	1154	19	11	58.25747635	+16	11	46.868471	0.00003705	0.0019387	0.3584	51696.1	51696.6	1	71.8	
1910+375	1910+375	1155	19	12	21.12360502	+37	40	36.6459153	0.00004369	0.00004295	0.5355	52430.9	52431.4	1	0.129	48.7
1913-802	P 1904-80	937	19	12	40.01842142	-80	10	5.9461387	0.0002472	0.00002319	0.1841	48387.9	48388.3	1	124.3	
1917+552	J1918+5520	1156	19	18	10.7500491	+55	20	38.6099031	0.00003676	0.00002118	-0.2409	51695.9	51696.7	1	81.9	
1918+267	1918+267	1157	19	20	29.10820373	+26	51	48.0031493	0.00006069	0.0015485	-0.3082	52939.9	52939.9	1	52.4	
1922+478	1922+478	1158	19	23	27.2297647	+47	54	16.8175403	0.00006484	0.0010881	-0.2303	52431	52431.6	1	75.5	
1920-211	OV-235	665	19	23	32.18981785	-21	4	33.3332064	0.00000297	0.000055	-0.5819	46709.1	53235.1	120	0.823	38
1921-293	OV-236	524	19	24	51.05595775	-29	14	30.1212848	0.000009	0.0000276	-0.0037	43809	53297.7	830	3.329	51.9
1923+210	OV 239.7	526	19	25	59.60535458	+21	6	26.1619877	0.00001115	0.0000222	0.0853	46367.8	53311.7	299	0.894	37.7
1928+738	1928+738	701	19	27	48.49513827	+73	58	1.5699753	0.00000521	0.00002422	0.0943	44772.1	52911.2	136	1.075	52.6
1926+087	1926+087	938	19	28	40.85548598	+8	48	48.4129253	0.00001834	-0.3205	50065	53185.6	6	49.4		
1925-610	1925-610	939	19	30	6.16000902	-60	56	9.1841201	0.00005638	0.0005305	-0.0671	48387.9	53165.7	6	69.4	
1928+154	1928+154	1154	19	30	52.76697628	+15	32	34.4271908	0.00000926	0.00001608	0.1807	52764.7	52765.6	1	0.514	56.9

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)	
		No.	H	M	S	H	M	S							
B1950	Common	940	19	31	24.91677553	+22	43	31.258767	0.00000263	0.00000581	-0.1945	48613.6	41	0.259	42.7
1929+226	1929+226	940	19	31	24.91677553	+22	43	31.258767	0.00000263	0.00000581	-0.1828	51695.9	51169.8	1	87.6
1933+635	J1933+6340	1160	19	33	55.33717864	+65	40	16.8280588	0.00004441	0.000207	-0.3119	51168.9	51169.7	1	111.8
1932+106	1932+106	941	19	34	55.0258774	+10	43	10.3629536	0.00012642	0.0046468	-0.1595	48916.1	52619.9	9	38
1932+204	1932+204	942	19	35	10.47299491	+20	31	54.1541213	0.00000337	0.00000587	-0.1595	48916.1	52619.9	9	223
1933+016	1933+016	1161	19	36	30.32653362	+1	42	52.3517643	0.00007969	0.0042028	-0.2062	52939.9	52940.5	1	139.2
1933-400	P 1933-400	528	19	37	16.21739835	-39	58	1.5534375	0.00001382	0.0001233	-0.8204	44228	53197.4	53	57.7
1934-638	P 1934-63	943	19	39	25.027755885	-63	42	45.6064806	0.00312055	0.0308117	0.7049	50181.6	50182.4	1	52.4
1936-155	P 1936-15	529	19	39	26.65775776	-15	25	43.0586524	0.00000284	0.0000563	-0.5113	47301.3	53227.7	84	0.562
1937-101	P 1937-101	530	19	39	57.25656716	-10	2	41.5208487	0.00000643	0.0002678	-0.221	49966.2	53094.7	10	48.4
1935-692	1935-692	944	19	40	25.52794219	-69	7	56.9707074	0.00008654	0.0010355	0.0803	48387.9	50259.1	4	133.2
1943+228	1943+228	945	19	46	6.2513836	+23	0	4.4143218	0.00000991	0.00026668	-0.4112	48797.2	52620.1	3	41.7
1947+079	1947+079	946	19	50	5.3935498	+8	7	13.9873484	0.00001406	0.0002626	-0.7646	48103.1	50054.1	23	246.1
1951+355	1951+355	947	19	53	30.8751706	+35	37	59.3593684	0.00001121	0.0002138	0.4768	49177.1	53131.6	6	26.3
1950-613	P 1950-613	948	19	55	10.77025662	-61	15	19.1393964	0.00011582	0.0011688	0.6593	49329.4	50182.4	2	109.1
1952+138	J1955+1358	949	19	55	11.57144513	+13	58	16.2406447	0.00001813	0.0005128	-0.3021	51696.1	52429.7	3	57.9
1954+513	1954+513	950	19	55	42.73826921	+51	31	48.5461465	0.00000301	0.0000392	0.0152	47612.7	53297.7	54	0.358
1955+335	1955+335	951	19	57	40.54990265	+33	38	27.9427756	0.00001549	0.000179	-0.5322	49403.5	52711.5	3	38.9
1954-388	P 1954-388	533	19	57	59.81927919	-38	45	6.356125	0.0000016	0.0000373	-0.0496	49014.8	53283.7	378	1.576
1957+405	3C 405	1162	19	59	28.35648246	+40	44	2.0962349	0.00007664	0.00067665	0.3791	53067.9	53068.5	1	22.1
1958-179	OV-198	534	20	0	57.09044649	-17	48	57.6727311	0.00000905	0.0000254	-0.0025	43809.1	53297.6	742	1.179
2000-330	P 2000-330	535	20	3	24.11632086	-32	51	45.1328554	0.00000978	0.0002657	-0.3535	48579.8	53068.7	14	47.5
2007+777	2007+777	952	20	5	30.99847872	+77	52	43.2475213	0.00000497	0.0000152	0.1369	48377.8	53164.7	132	1.073
2005+642	2005+642	953	20	6	17.69460857	+64	24	45.417899	0.00002437	0.0001432	0.0448	49422	53185.1	5	0.156
2004+064	2004+064	1163	20	7	11.91527506	+6	36	44.5995746	0.00026046	0.0026046	0.4885	52431.3	52431.3	1	41.6
2005+403	2005+403	954	20	7	44.94524723	+40	29	48.6083756	0.00027742	0.0027742	0.8212	48665.8	48976.1	2	0.028
2005+489	P 2005+489	955	20	9	25.39073332	-48	49	53.7217222	0.00005929	0.0000404	0.8203	49750.6	53297.7	23	166.1
2008-068	OW-015	537	20	11	14.21583885	-6	44	3.5555657	0.00000798	0.0001849	-0.5885	48345.7	53131.7	22	0.05
2008-159	P 2008-159	536	20	11	15.71093748	-15	46	40.2537365	0.00000209	0.0000486	-0.4418	47254.6	53197.5	133	0.812
2013+163	2013+163	1164	20	16	13.860031148	+16	32	34.1131785	0.00000644	0.00002049	0.0232	52745.8	52751.7	2	0.382
2017+745	2017+743	956	20	17	13.07934239	+74	40	47.9998474	0.00001213	0.000046	0.1392	48553.1	53297.7	22	44.7
2015+083	J2018+0831	1165	20	18	11.311197896	+8	31	54.5482507	0.00001688	0.0008112	-0.264	51696.5	51696.5	1	59.8
2021+614	OW 637	539	20	22	6.68171661	+61	36	58.80944859	0.00000293	0.0000241	0.1304	46336.9	53276.2	29	0.653
2021+317	2021+317	957	20	23	19.01734822	+31	53	2.305757	0.00000395	0.0000847	-0.2859	48353.4	53248.7	25	0.19
2021+003	2021+003	1166	20	24	22.71525844	+0	27	53.1003093	0.00010427	0.0017763	-0.4472	52940.5	52940.7	1	44.8
2022+274	2022+274	1167	20	24	51.23095414	+27	36	1.696004	0.00007053	0.0011645	0.592	52940.5	52940.5	1	50
2022+171	J2024+1718	1168	20	24	56.56343802	+17	18	13.1977515	0.0000612	0.0002123	-0.0804	51696.1	52751.7	3	0.413
2023+335	2023+336	703	20	25	10.84211438	+33	43	0.2140184	0.00000676	0.0000985	-0.2389	49177.1	52830.6	5	0.064
2027+464	2027+464	1169	20	29	18.93592162	+46	36	2.2538137	0.000038181	0.0088374	-0.1305	52939.9	52940.4	1	68.5
2030+547	OW 551	543	20	31	47.95858458	+54	55	3.1390356	0.00000577	0.0000639	-0.1262	44203	52711.7	11	0.262
2029+121	P 2029+121	542	20	31	54.99426983	+12	19	41.3402381	0.00000206	0.0000495	-0.0845	44202.8	53220.3	46	0.265
2037+511	3C 418	545	20	38	37.03472689	+51	19	12.6625536	0.0000121	0.0000129	0.3163	45495.3	53311.7	516	0.982
2037-253	P 2037-253	546	20	40	8.77289717	-25	7	46.6635053	0.00002173	0.00002123	-0.1928	50077.8	53192	7	86.6
2051+745	2051+745	958	20	51	33.73454333	+74	41	40.498041	0.00001004	0.00003357	-0.5472	48353.1	53150.5	21	0.102
2050+226	2050+226	1170	20	53	9.36416462	+22	48	1.4867836	0.000042384	0.0015288	-0.0178	52939.9	52940.1	1	39.7
2054+611	2054+611	1171	20	55	38.83831737	+61	22	0.6380571	0.0000251	0.000211	0.2431.5	52431.5	52431.5	1	68.4
2052+474	P 2052+474	959	20	56	16.35982415	-47	14	47.6278168	0.00000638	0.0000923	-0.3377	48388	53248.6	90	78.1

Names	ID	Right Ascension			Declination			RA Error (arc sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Cor Flux Density (Jy)	Delay Scatter (ps)		
		No.	H	M	S	H	M	S								
B1950	Common	960	20	57	41.60346128	-37	34	2.99137478	0.00001658	0.0007187	0.054	49960.6	53131.5	5	0.352	56.9
2054-377	2054-377	553	21	1	38.8347101	+3	41	31.3208402	0.00000236	0.0000704	-0.2321	50003	53165.7	8	0.704	26.5
2059+034	P2059+034	961	21	1	59.11085673	-42	19	16.1222271	0.00282398	0.0260219	-0.9625	49329.4	49329.5	1		119.7
2058-425	2058-425	962	21	2	17.0560373	+47	2	16.253685	0.00002742	0.0000745	0.1687	49177.3	49403.7	2	0.104	71.4
2100+468	2100+468	963	21	5	44.96153897	-78	25	34.54683366	0.000020971	0.0005304	0.0883	49330.4	50259.2	2		145.3
2059-786	2059-786	1172	21	6	59.7221978	-65	47	43.591129	0.00080132	0.0025126	-0.0262	53164.8	53165.7	1		32.1
2102-659	2102-659	964	21	8	41.03214762	+14	30	27.0125807	0.0000031	0.0000936	-0.0897	50799.9	53193.7	7		38.4
2106+143	J2108+1430	554	21	9	33.18858368	-41	10	20.6055203	0.00000965	0.0001159	-0.4352	48388	51927.2	23	1.191	64.7
2106-413	P2106-413	555	21	15	29.41345057	+29	33	38.3669515	0.00000117	0.0000216	0.0347	44202.9	53297.7	247	0.371	57.7
2113+293	B2 2113+29B	965	21	16	30.84571707	-80	53	55.223233	0.00012375	0.0001762	-0.0247	49329.4	53324	8		126.6
2109-811	2109-811	1173	21	19	54.16486977	+71	10	36.1024577	0.00009836	0.0005437	0.3494	52430.9	52431.7	1		79.1
2119+709	2119+709	1174	21	21	0.6058027	+19	1	28.2817831	0.00006238	0.000867	0.2458	52431.2	52431.4	1		42.8
2118+188	2118+188	1175	21	21	4.07394097	-61	11	24.6260713	0.00054204	0.0023051	0.0998	53164.8	53165.7	1		37.2
2117-614	2117-614	1176	21	23	5.31352324	+55	0	27.32713577	0.00003915	0.0003435	-0.1584	52939.8	52940.3	1		61.3
2121+547	2121+547	1177	21	23	31.82838216	+46	14	22.9614154	0.00030861	0.0030861	0.7377	52940.6	52940.6	1	0.029	60.8
2121+460	2121+460	557	21	23	44.15740356	+5	35	22.0929979	0.0000072	0.00000188	0.1379	46845.2	53290.6	689	0.986	52.7
2121+053	OX 036	559	21	29	12.17590567	-15	38	41.0413004	0.00000155	0.0000432	-0.1007	48196.1	53300.1	319	0.415	39.9
2126-158	P2126-158	562	21	30	32.87739974	+5	2	17.4707542	0.00002161	0.0006424	-0.4759	48205.9	50210.3	13	0.037	147.2
2128-048	P2127+04	563	21	31	35.26175059	-12	7	4.7962938	0.00000108	0.0000316	-0.0507	47254.7	53276.7	685	0.888	63.4
2128-123	P2128-12	564	21	34	10.30959873	-1	53	17.2388913	0.0000019	0.0000461	-0.4339	47254.8	53197.5	104	0.623	30.5
2131-021	P2131-021	565	21	36	38.58633477	+0	41	54.21343325	0.00000147	0.00000417	-0.3386	43809.2	53262.7	588	1.484	53.1
2134+004	P2134+004	567	21	39	1.3026914	+14	23	35.9921367	0.0000072	0.0000163	0.1597	48196.2	53311.6	489	0.951	40.7
2136+141	OX 161	570	21	46	22.97932811	-15	25	43.8857309	0.00000413	0.0000985	-0.3986	44202.9	53165.7	34	0.174	35.9
2143-156	OX-173	571	21	47	10.16297765	+9	29	46.6722638	0.00000312	0.0000772	-0.2335	48196.2	52767.6	23	0.246	27.7
2144+092	OX 074	966	21	47	12.72961578	-75	36	13.2267074	0.00145275	0.0041863	0.9761	48388.2	48388.2	1		0
2147-758	2147-758	572	21	48	5.45867157	+6	57	38.6041302	0.00000153	0.00000153	0.2161	43809.2	53301.7	1162	2.3	42.1
2149+067	P2145+06	577	21	51	37.87549066	+5	52	12.9547331	0.00000181	0.0000488	-0.4035	44202.9	53307.8	178	0.279	48.7
2149-307	P2149-306	575	21	55	55.52398236	-30	27	53.6986696	0.00000692	0.00001811	-0.2846	48388	53171.3	8	1.827	37.8
2146-783	2146-783	967	21	52	3.15410557	-78	7	6.638986	0.00018483	0.0005408	0.5046	48388.2	50259.5	3		122.5
2150+173	2150+173	968	21	52	24.81939677	+17	34	37.7951483	0.00000211	0.0000478	-0.1003	48196.2	53269.6	30	0.349	36.2
2152-226	J2155+2250	1178	21	55	6.45849814	+22	50	22.2809469	0.00001795	0.0003797	-0.1025	51696.5	53020.1	4		47.9
2152-699	2152-699	969	21	57	5.98035954	-69	41	23.6834081	0.0003558	0.00317	0.7959	49330.5	50259.2	2		304.2
2153+312	2155+312	1179	21	57	28.82383207	+31	27	1.3520207	0.00003207	0.0005231	0.1737	52939.8	52940.5	1	0.277	37.8
2155-152	OX-192	579	21	58	6.28191161	-15	1	9.328174	0.00002886	0.0000616	-0.455	43809.2	53197.5	103	0.765	42.8
2155-304	P2155-304	970	21	58	52.06511122	-30	13	32.11838388	0.00002071	0.00001791	-0.1025	50210.3	53165.7	7	0.551	
2200+420	VRO 42.22.01	581	22	2	4.239137035	+42	16	39.97981812	0.00000934	0.0000111	0.3102	43809.4	53196.8	786	1.116	41.1
2209+236	P2209+236	588	22	12	5.96631058	+23	55	40.5438496	0.00000128	0.00002276	0.0124	49848	53311.5	103	0.995	37.7
2210+065	J2212+0646	1183	22	12	50.83928344	+6	46	8.7424389	0.00007545	0.0023437	-0.713	51696	51696.6	1	0.587	36.9
2204-540	P2204-54	971	22	7	43.733304	-53	46	33.8204084	0.00002786	0.0003664	0.0136	48388	52067.7	6		83.4
2205+166	2205+166	1181	22	7	52.86566992	+16	52	17.8160193	0.00001291	0.0004191	0.1414	52754	52758.7	2	63	
2207+517	2207+517	1182	22	9	21.48671196	+51	58	1.8342715	0.0011143	0.001633	0.6617	52431	52431.6	1		69.9
2209+236	P2209+236	1183	22	12	5.96631058	+23	55	40.5438496	0.00000128	0.00002276	0.0124	49848	53311.5	103	0.995	37.7
2210+065	J2212+0646	1183	22	12	50.83928344	+6	46	8.7424389	0.00007545	0.0023437	-0.713	51696	51696.6	1	0.587	36.9
2210-257	P2210-257	705	22	13	4.29799499	-25	29	30.0805306	0.000027664	0.00001701	-0.2216	49960.4	53165.7	6	0.298	51.3
2211-388	P2211-388	972	22	14	38.5695171	-38	35	45.0246811	0.000027664	0.00078648	0.5669	50258.6	51732.7	2	84.4	
2214+350	GC 2214+35	590	22	16	20.0099295	+35	18	14.1804763	0.00000446	0.00008088	-0.1431	49749.8	53234.7	7	0.351	53

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC Corr	Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)		
		No.	H	M	S	H	M	S								
B1950	Common	1184	22	17	0.82118419	+24	21	45.9581943	0.00001006	0.0002543	0.0206	52969.2	2	0.351	45.5	
2214+241	J214+241	592	22	18	52.03773602	-3	35	36.8794175	0.00000124	0.0000341	-0.0426	45139.2	363	0.963	53.3	
2216-038	P 2216-03	1185	22	19	14.09252226	+18	6	35.5810055	0.00002472	0.0012984	-0.2783	51696.1	1	51696.6	78.6	
2216+178	J2219+1806	1186	22	23	18.0979187	+62	49	33.80791947	0.00087869	0.0034422	0.0616	52940.3	1	11.6		
2221+625	J2221+625	1187	22	25	38.04712352	+62	18	6.4153904	0.00000912	0.0001325	0.0589	52963.8	2	39.5		
2223+210	J223+210	594	22	25	47.25929354	-4	57	1.3909361	0.00000064	0.0000188	-0.0063	45151.6	53307.7	522	2.088	37.3
2223+052	3C 446	1188	22	26	46.53707103	+0	52	11.3341891	0.00003637	0.0013936	-0.3401	51696	1	51696.6	81.1	
2224+006	J2226+0052	596	22	29	40.08434418	-8	32	54.4555239	0.00000374	0.00000717	-0.7015	47254.8	98	1.211	52	
2227-088	P 2227-08	694	22	30	36.46964551	+69	46	28.0770392	0.00000876	0.0000448	0.0362	46337.1	36	0.491	36.1	
2229+695	J229+695	597	22	30	40.27863311	-39	42	52.0674678	0.00003911	0.0011421	-0.1972	49790.1	52096.5	2	0.145	91.8
2227-399	P 2227-399	599	22	32	36.40890601	+11	43	50.9039953	0.00000012	0.0000294	-0.1109	43809.4	53283.6	206	2.05	38.1
2230+114	CTA 102	973	22	35	13.23657753	-48	35	58.793902	0.00002266	0.0003262	0.1286	49329.4	53192.3	8	52.5	
2232-488	P 2232-488	601	22	36	22.47085174	+28	28	57.4132811	0.00000073	0.0000118	0.2927	44202.9	53311.6	1200	0.535	50.1
2234+282	GC 2234+28	600	22	36	34.08716179	-14	33	22.1895817	0.00001133	0.0001707	-0.0989	48196.6	49	0.212	58.7	
2233-148	P 2233-148	974	22	36	38.59700605	+73	22	52.6624062	0.00001094	0.0000482	0.231	51071.9	53283.5	91	58.9	
2235+731	J235+731	1189	22	41	7.20524008	+41	20	11.6178418	0.0000896	0.0009538	0.2903	52431.1	1	70.8		
2238+410	J238+410	605	22	46	18.23197617	-12	6	51.2778005	0.00000074	0.0000245	-0.1422	43809.2	53307.1	601	0.787	
2243-123	OY-172.6	1190	22	47	3.91734773	-36	57	46.304216	0.00004773	0.0003456	-0.5671	53164.7	53165.7	1	34.2	
2244-372	J244-372	1191	22	48	37.91035471	+37	18	12.4642697	0.00005055	0.0006777	0.1645	52939.9	52940.7	1	77.3	
2246+370	J246+370	608	22	48	38.68571947	-32	35	52.1877856	0.00001606	0.0001667	-0.8987	43809.2	51927.3	62	0.259	92.4
2245-328	P 2245-328	1192	22	49	0.5667306	+21	7	2.8361899	0.00000934	0.0006228	0.1935	52969	52975.3	2	51.1	
2246+208	J246+208	1193	22	50	42.85102815	+55	50	14.5823709	0.00003672	0.0004992	0.1814	51696	51696.7	1	59	
2248+555	J2250+5550	975	22	53	57.36916967	+19	42	34.6288435	0.00000177	0.0000471	-0.0892	50800	53201.6	9	0.423	35.9
2250+194	J250+190	611	22	53	57.74794197	+16	8	53.5609196	0.00000103	0.0000239	-0.0893	43809.3	53235.6	511	1.299	46.5
2251+158	3C 454.3	614	22	55	4.23978884	-8	44	4.0214728	0.00000441	0.0000915	-0.4991	47393.4	53196.7	36	0.149	37
2252-090	P 2252-089	615	22	55	36.70783373	+42	2	52.5327443	0.00000769	0.000099	-0.2358	44263.8	53276.6	62	0.701	57.8
2253-417	GC 2253-41	617	22	57	17.30311633	+7	43	12.3022876	0.00000351	0.0000834	-0.1793	47409.2	53150.5	37	0.224	33.9
2254+074	J2254+07	616	22	57	17.56309984	+2	43	17.5117374	0.00000434	0.0000931	-0.6073	47254.8	53196.7	42	0.362	36.7
2255-282	P 2255-282	619	22	58	5.96289625	-27	58	21.2568913	0.00000122	0.00000281	0.0903	47415.3	53297.7	776	1.747	55.3
2258+166	J258+166	1194	23	0	42.99114137	+16	55	14.3914011	0.00001374	0.00002041	-0.0051	52758.8	52765.6	2	65.2	
2259-374	J259-374	976	23	2	23.90158188	-37	18	6.9092524	0.00964389	0.070935	-0.9937	49329.4	50049.5	2	253.8	
2300+638	J2300+638	1195	23	2	41.31495738	+64	5	52.8496399	0.00055541	0.0004033	0.0864	52939.8	52940.3	1	41.8	
2302+232	J2302+232	1196	23	4	36.43639422	+23	31	7.6111689	0.0000061	0.0001663	-0.2137	53024.8	53265.2	17	50	
2309+454	J2311+4543	1197	23	11	47.40896951	+45	43	56.0166491	0.00002169	0.0003485	0.0107	51695.9	51696.7	1	50.4	
2311-452	P 2311-452	625	23	14	9.38286544	-44	55	49.3245295	0.00006911	0.019258	0.1448	49329.4	50049.5	2	0.116	120.8
2312-319	P 2312-319	626	23	14	48.50059236	-31	38	39.5626339	0.00000266	0.0003054	-0.2653	49790.1	53219.9	7	0.434	53.6
2316+862	J2316+862	1198	23	15	49.18973225	+86	31	43.5961536	0.000032793	0.0003214	0.0173	52939.8	52940.5	1	56.5	
2318+049	G C 2318+04	627	23	20	44.85659651	+5	13	49.9524593	0.00000098	0.00000224	-0.0089	47254.8	53307.7	341	0.606	39
2319+272	B 2319+272	629	23	21	59.86222625	+27	32	46.4435862	0.00000333	0.00000766	-0.1104	48103.2	53196.7	28	0.338	42.8
2319+444	J2322+444	1199	23	22	20.35811074	+44	45	42.3542307	0.00002302	0.0002984	-0.2441	51696	51696.6	1	65.2	
2320+506	J2320+506	977	23	22	25.9821717	+50	57	51.963646	0.00000436	0.01418	48719.9	53143.7	11	0.328	34.7	
2319+184	J2319+184	1200	23	22	28.5688581	+18	43	24.8995859	0.00002647	0.0006372	0.0117	52430.8	52431.4	1	70.6	
2320-035	P 2320-035	633	23	23	31.95376089	-3	17	5.0239541	0.00000718	-0.678	44202.9	53196.7	143	0.529	52.4	
2321-375	J2321-375	1201	23	24	7.1118599	-37	14	22.4554808	0.000007598	-0.0345	-0.4803	53164.8	53165.7	1	34.1	
2325-150	P 2325-150	634	23	27	47.96424399	-14	47	55.7513447	0.00000478	0.0001729	-0.3252	49960.4	53192.2	5	0.213	38.5
2326-477	P 2326-477	978	23	29	17.0430972	-47	30	19.1165693	0.00002967	0.0005831	0.3063	47304.8	50259.5	4	133.8	

Names	ID	Right Ascension			Declination			RA Error (sec)	DEC Error (arc sec)	RA-DEC		Obs Epochs	No. Obs	Corr Flux Density (Jy)	Delay Scatter (ps)
		No.	H	M	S	H	M	S		First	Last				
B1950	Common	1202	23	30	13.73770564	+33	48	36.4722319	0.00002254	0.0003751	-0.0188	51695.9	1	64.6	
2327+3335	J2330+3348	636	23	30	40.8522618	+11	0	18.7096136	0.00000318	0.0000785	-0.5194	48196.3	28	0.373	
2328+107	P2328+10	638	23	31	38.65245217	-15	56	57.0096022	0.00001058	0.0000362	-0.1051	50258.6	52277.2	8	
2329-162	P2329-16	639	23	31	59.47618651	-38	11	47.6498513	0.00003894	0.0003577	-0.1048	51115.5	53192.2	6	
2329-384	P2329-384	979	23	33	55.23781803	-23	43	40.6580611	0.00001696	0.0002219	-0.9304	48196.2	51663.8	36	
2331-240	P2331-240	980	23	36	12.13155046	-52	36	21.9212711	0.01381123	0.030146	-0.9738	50048.8	50049.4	1	
2333-528	P2333-528	644	23	37	57.33907651	-2	30	57.6292934	0.00000316	0.000072	-0.4383	47381.3	53196.7	78	
2335-027	P2335-027	647	23	40	29.02945864	+26	41	56.8044191	0.00000692	0.0001219	-0.1081	4917.2	51927.3	7	
2337+264	GC 2337+26	1203	23	43	12.38701545	+23	39	45.6479387	0.0000242	0.0002661	-0.1655	51696	53020	3	
2340+233	J2343+2339	649	23	46	36.83853982	+9	30	45.514688	0.00000332	0.0000712	-0.2982	48196.3	52291.6	25	
2344+092	P2344+09	1204	23	46	46.250844693	+30	11	59.2499532	0.00004053	0.001003	-0.1027	52939.8	52940.4	1	
2344+299	P2344+299	651	23	48	2.60853185	-16	31	12.0224247	0.00000342	0.0000622	-0.6348	43809.2	53196.7	179	
2345-167	P2345-16	1205	23	49	21.05154228	+5	34	39.8725701	0.00008212	0.001395	-0.4939	51696.2	51696.6	1	
2346-052	J2349-0534	981	23	54	42.29969598	+55	18	40.666569	0.00002871	0.0003562	0.2039	51695.9	51696.5	1	
2351+550	J2353+5518	695	23	54	30.19518812	-15	13	11.2131369	0.00000484	0.0000996	-0.1345	47941.2	53269.6	33	
2351+456	P2351+456	656	23	55	9.45813133	+49	50	8.3393145	0.0000152	0.0001674	-0.2867	44203	51246.5	3	
2351-154	P2351-154	982	23	56	0.68164123	-68	20	3.4722069	0.00010288	0.0004785	-0.5214	48387.5	52388.7	4	
2353-686	P2353-68	983	23	57	53.26608533	-53	11	13.689413	0.00002095	0.0002893	0.1632	47973.1	53192.3	9	
2355-534	P2355-534	658	23	58	10.88241391	-10	20	8.6116004	0.0000027	0.0000555	-0.5674	46337.1	53196.7	188	
2355-106	P2355-106	660	23	59	33.18078796	+38	50	42.318396	0.00000169	0.0000238	-0.0825	50559.7	53300.4	300	
2356+385	GC 2336+38													0.572	52.9

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